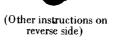
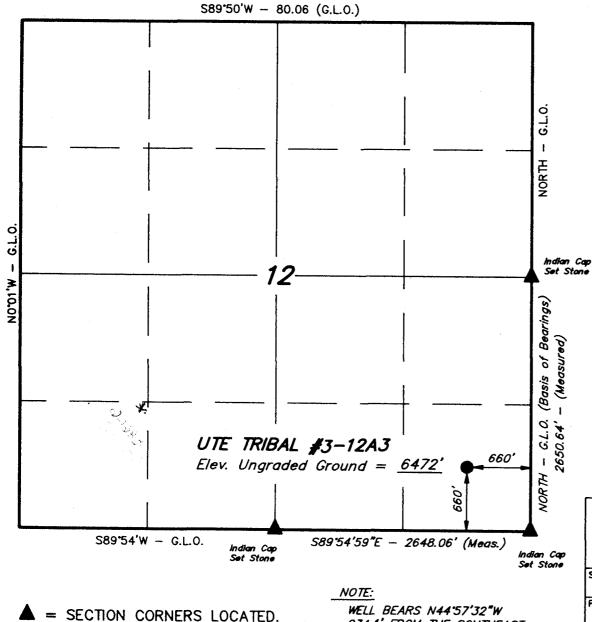
# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



5. Lease Designation and Serial No.

			<del></del>	<del>-</del>	a la tuli
APPLICATION	FOR PERMIT	IA PITTU PEE	PEN PRUPLU	G BACK	6. If Indian, Allottee or Tribe Name
		DEEPEN		BLCK [	- Ute Tribe 7. Unit Agreement Name
b. Type of Well Oil Garage	as [T]		Single [	Multiple 🗀	8. Farm or Lease Name
Well XXX G	eli U Other		Zone 🗀	Multiple Zone	Ute Tribal
	oloration and P	roduction Compa	anv		9. Well No.
6. Address of Operator	,101401011 4114 1				3–12A3
P.O. Box 290	) Neola, Uta	ah 84053		7 · · · · · · · · · · · · · · · · · · ·	10. Field and Pool, or Wildcat Upper Green, River
. Location of Well (Repo	ort location clearly and in	accordance with any Sta	te requirements 🖺 🗀 🤇	03 1990	-Bluebell Altamont O
SESE 660'	FSL & 660'	FEL,		0 1000	11. Sec., T., R., M., or Blk. and Survey or Area
At proposed prod. zone	•		\$ 1.5 - 1.5 \$7.00		Sec. 12 T1S R3W
4. Distance in miles and	direction from nearest to	vn or post office*			12. County or Parrish 13. State
	ortheast of Blue				Duchesne Utah
15. Distance from propose	ed*	16.	No. of acres in lease		of acres assigned
location to nearest property or lease line, (Also to nearest drlg.)	It,	FSL or FEL	640	to th	is well 40
8. Distance from propose to nearest well, drillin	d location*	TOLI 19.	Proposed depth	20. Rotar	y or cable tools
or applied for, on this	g, completed, WASA lease, ft. 3320	TCU _	9800' GRR	<b>/</b>	Rotary
1. Elevations (Show wheth		70.			22. Approx. date work will start*
	ound Level = 64	/2'			Jan. 15, 1991
3.		PROPOSED CASING AT	ND CEMENTING PRO	GRAM	,
Size of Hole	Size of Casing	Weight per Foot	Setting Depth		Quantity of Cement
11"	8 5/8"	28#	3000'		1525 cu ft
7.7/8"	5 1/2"	17#	9800'		2220 cu ft
3. An AFE ha	d. e.	and a copy h	rig and locat udy spudding of	ion layou	
Danny Lam Signed Telegral  (This space for Federal API Permit No. 43	an	Office (801) 35	ata on subsurface loca	Home (80	one productive zone and proposed new proposed and true vertical depths. Give blowout the control of the control
Conditions of approval,	it any:			BY:	PACING: RUIS-3-02

### T1S, R3W, U.S.B.&M.



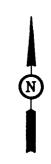
934.1' FROM THE SOUTHEAST CORNER OF SECTION 12.

#### PENNZOIL EXPLORATION & PRODUCTION COMPANY

Well location, UTE TRIBAL #3-12A3, located as shown in the SE 1/4 SE 1/4 of Section 12, T1S, R3W, U.S.B.&M. Duchesne County Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 12, T1S, R3W, U.S.B.&M. TAKEN FROM THE NEOLA NW QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6458 FEET.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLE

> REGISTERED LAND SURVEYOR REGISTRATION NO. 5709 STATE OF UTAH

REVISED: 11-26-90

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH - 200 EAST (801) 789-1017 VERNAL UTAH - 84078

·	01111				
SCALE 1" = 1000'	DATE 11-16-90				
PARTY D.A. B.C. T.D.H.	REFERENCES G.L.O. PLAT				
WEATHER	FILE				
COOL	PENNZOIL EXPLR. & PROD. CO.				

#### DRILLING PLAN

OPERATOR:

PENNZOIL EXPLORATION & PRODUCTION COMPANY

WELL:

Ute Tribal 3-12A3

WELL LOCATION: 660' FSL & 660' FEL

SESE SEC. 12 T1S R3W DUCHESNE COUNTY, UTAH

#### 1&2. ESTIMATED TOPS AND IMPORTANT GEOLOGICAL FORMATIONS:

Duchesne River at surface ( surface formation) Uinta near the surface Green River 7573 Green River Z 8151 Trona I 8823 Mahogany Bench 9583 9800 Total Depth

#### 3. ESTIMATED OIL AND WATER DEPTHS:

Water NONE ANTICIPATED Top of Green River Oil @ 7750+-Green River Z Oil @ 8151+-Oil @ 9583+-Mahagony Bench

#### 4. HOLE SIZE, CASING, AND CEMENT PROGRAM:

- a. CONDUCTOR HOLE: 0 60'+
  - a. Drill a 26" hole to 60' with rat hole machine.
  - b. Set 14" conductor pipe.
  - c. Cement with ready mix concrete at six bags per yard.
- b. SURFACE HOLE: 60' 3000':
  - a. Drill a 11" hole to 3000'.
  - b. Set 3000' of 8 5/8" 28# S-80 STC.
  - c. Cement: Low density filler to surface, Tail-in with 200 sacks Class "G".
- c. PRODUCTION HOLE: 3000 9,800'
  - a. Drill a 7 7/8" hole to 9,800'
  - b. Set 9,800' of 5 1/2" 17# WC-70 LTC.
  - c. Cement: Low density filler from surface to 7100 Tail-in from TD to 7100' with a 50/50 Poz "G", tailored for depth and temp.

#### 5. PROPOSED DRILLING FLUID PROGRAM:

a. Surface Hole: Spud with a gelled fresh water with a 36 viscosity to 300'. Then continue drilling through the reserve pit with fresh water, using lime and flocculent to keep water clean.

Should a water flow be encountered, it will be contained and drilling will resume.

b. Production hole: Start drilling this interval with fresh water circulating the reserve pit. Use viscous sweeps to keep the wellbore clean and a flocculent to keep the water clean.

Should well bore condition dictate, mud up will be with a polymer. Salt will be used for weight material.

Final fluid properties: 8.8 ppg. + salt water.

#### 6. OPERATOR'S PRESSURE CONTROL PLAN:

Figure no. 1 is a schematic of minimum BOP equipment.

The BOP equipment will be nippled up on the surface casing and pressure tested prior to drilling out:

- a. All rams and choke manifold will be tested to 3000 psi.
- b. Bag preventor will be tested to 50% of its rated working pressure.
- c. All casing strings will be tested to 1500 psi. or 0.2 psi/ft per depth, which every is greater.
- d. Record all BOP test on tour reports.
- e. Retest BOP stack every 28 days.
- f. Fill up line above the bag preventer.
- g. Kill line located below the BOP rams.

#### Operational Checks:

- a. Pipe rams will be closed and opened once each 24 hours.
- b. Blind rams will be closed and opened each time the drill string is pulled from the well bore.

#### 7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. Upper and lower kelly cocks will be utilized.
- b. A full opening drill pipe stabbing valve.
- c. Visual inspection will be used to monitor the mud system.

#### 8. WELL BORE EVALUATION:

a. CORING

b. DRILL STEM TESTING

c. LOGS: Surface hole

Production hole

One possible

Two possible

None

Dual Induction Lateral

Gamma Ray

Formation Density BHC-Sonic Micro-SFL

Four Arm Caliper

d. COMPLETION: The objective formation is one of the oil

zones in the upper Green River.

Selected intervals will then be perforated

and evaluated for stimulation work.

#### 9. PRESSURE AND TEMPERATURES:

- a. No abnormal pressure or temperature have been noticed or reported in wells drilled in this area.
- b. Estimated bottom hole temperatures : 150 degrees
- c. Estimated bottom hole pressure: 4500 psi

#### 10. ANTICIPATED STARTING DATE:

- a. Construction will probably start within 1 to 3 days of permit approval.
- b. The well will probably be spudded within 5 days of well site completion.

#### 11. OTHER INFORMATION:

- a. Topography: Flat open range
- b. Soil Characteristics: Bentonitic clays and rocks
- c. Flora: Sagebrush
- d. Fauna: Domestic none

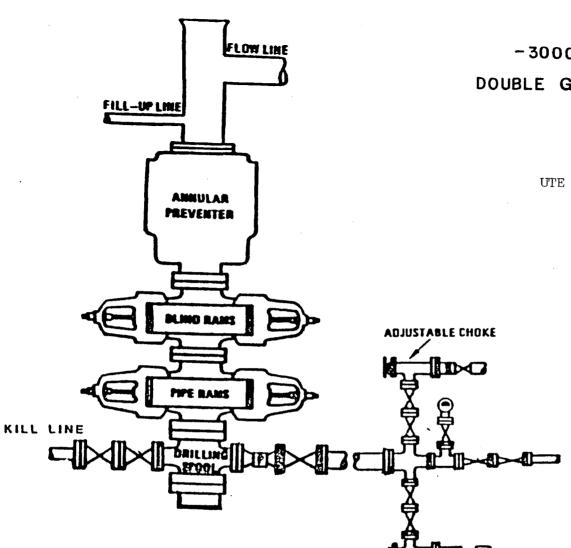
Wildlife - Deer, Grouse, etc.

- e. Surface Use: Grazing
- f. Surface Owner: Ute Tribal
- g. Archeological or Historical Sites: See attached study

#### 12. LEASEE'S OR OPERATOR'S REPRESENTATIVE:

George P. SanFilippo, Vice President of Western Operations Danny L. Laman, Drilling Foreman (801) 353-4397

13. This well will be drill per regulations as set forth by the State of Utah Natural Resource Oil, Gas, & Mining Division and the Bureau of Land Mangement.



**BOP SCHEMATIC** 

-3000 PSI - WORKING PRESSURE

DOUBLE GATE - BAG TYPE - BOP STACK

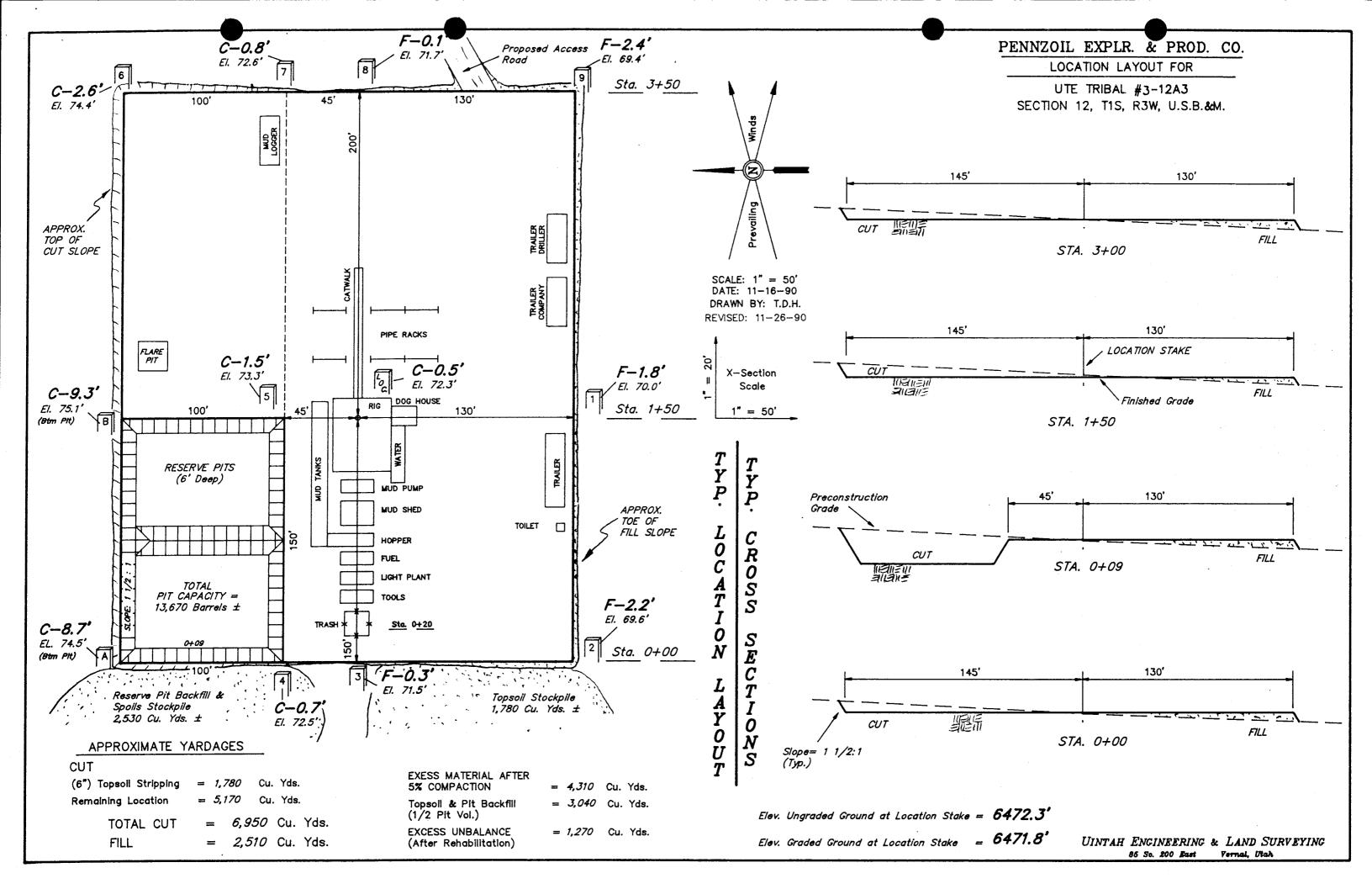
CHOKE MANIFOLD

for:

UTE TRIBAL 3-12A3

BOP Stack

**CHOKE MANIFOLD** 

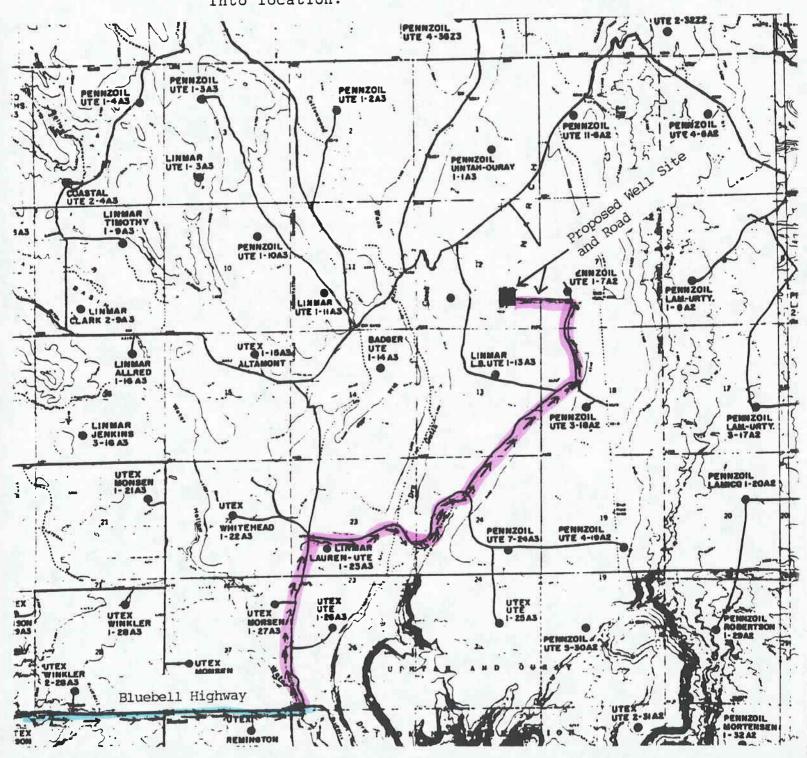


# PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

Ute Tribal 3-12A3 Sec. 12 TlS R3W SESE 660' FSL & 660' FEL

Directions: From Altamont, Utah go 4.6 miles East on the Bluebell highway, turn left on lease road go North for 1.3 miles, turn right and go East for 1.5 miles, road will Y, take left Y and go Northeast for 1.9 miles, then turn left into location.





# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P.O. Box 853 Bountiful, Utah 84010 Tel: (801) 292–7061, 292–9668

November 20, 1990

Subject:

CULTURAL 3 RESOURCE EVALUATION OF UTE TRIBAL UNIT NO. 2-12A3 AND PROPOSED ACCESS AND PIPELINE CORRIDORS IN THE MONARCH RIDGE

LOCALITY OF DUCHESNE COUNTY, UTAH

Project:

Pennzoil Exploration - 1990 Drilling

Program

Project No.:

PNZ0-90-2

Permit No.:

Dept. of Interior -- Ut-88-54937 Utah State Project No. 90-AF-561i

To:

Pennzoil Exploration, Attn.: Denny Laman, P.O. Box 290 Neola, Utah 84053

Mr. Roland McCook, Bureau of Indian Affairs, P.O. Box 190, Fort Duchesne, Utah 84026

Mr. Lonnie Nephi, Ute Indian Tribe, Energy & Minerals Dept., P.O. Box 190, Fort Duchesne, Utah 84026

Info:

Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City, Utah 84101

#### GENERAL INFORMATION:

On November 19, 1990, AERC archaeologist F. R. Hauck and assistant Lance Harding conducted a cultural resource evaluation of Ute Tribal Unit 2-12A3, a .25-mile-long proposed access route, and a .4-mile-long pipeline corridor for Pennzoil Exploration and Production Company of Neola, Utah. This project is on Ute Tribal lands in the Monarch Ridge locality of Duchesne County. Mr. Lonnie Nephi from the Ute Tribe Energy and Minerals Department accompanied the survey.

This well is located in the SE-SE of Section 12, Township 1 South, Range 3 West, Uinta Base & Meridian. The access route and pipeline corridor extend to the east from the well location into adjacent Section 7 as shown on the attached map. The access road is terminated at the existing roadway, however, the pipeline route extends to the northeast to connect with an existing pipeline near the center of Section 7.

The project area is at the 6470 foot elevation above sea level on the open sage rangeland.

#### FILE SEARCH:

A records search was conducted at the Antiquities Section of the Utah State Division of History in Salt Lake City on November 20, 1990. This search provided information that no previously recorded cultural resources are situated in the project development area. AERC has previously recorded archaeological sites in this locality while consulting for Gary Energy Company (see AERC Report GEC-84-1 dated 5-21-84, "Cultural Resource Evaluation of a Proposed Pipeline Route in the Bluebell Locality of Duchesne County, Utah," prepared by F.R. Hauck). No known National Register potential sites are situated in the project area.

#### RESEARCH METHODS:

To conduct the current evaluation, the archaeologists walked a series of 10 to 15 meter wide transects through the staked well location. A 20-meter-wide buffer area was examined around the location. In addition, two 25 meter wide transects flanking the flagged centerline for the road and pipeline were also examined.

#### RESULTS:

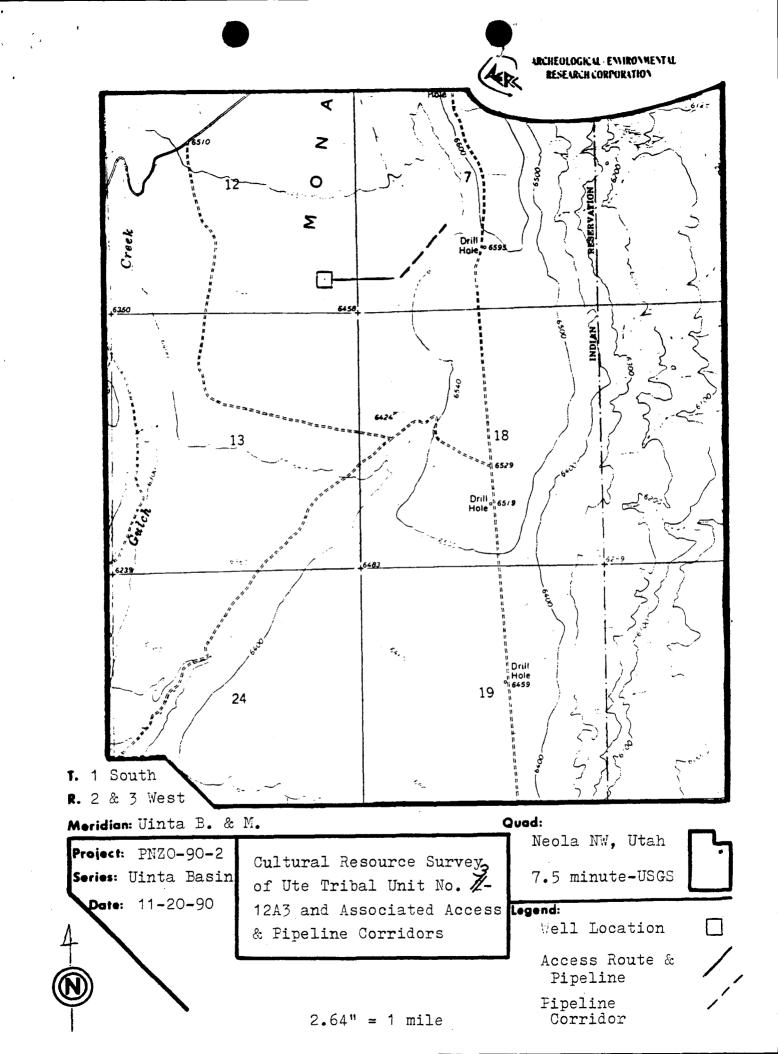
No cultural resource activity sites of historic or prehistoric occupation or use were recorded during this evaluation in this project area. An atl-atl point midsection constructed from pink chert was observed at the junction of the access road and the well pad. No artifacts were collected by AERC.

#### CONCLUSION AND RECOMMENDATIONS:

AERC recommends that a cultural resource clearance be granted to Pennzoil Exploration and Production Company relative to the development and production of the proposed well location, access road and pipeline corridor based upon adherence to the following stipulations:

- 1. All vehicular traffic, personnel movement, and construction should be confined to the surfaces examined as referenced in this report, and to the existing roadways and/or evaluated access routes;
- 2. all personnel should refrain from collecting artifacts and from disturbing any cultural resources in the area; and
- 3. the authorized BIA or tribal official should be consulted should cultural remains from subsurface deposits be exposed during the development program or if the need arises to relocate or otherwise alter the location of the construction area.

F. Richard Hauck, Ph.D. President and Principal Investigator



### PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

Nov. 27, 1990

State of Utah, Dept. of Natural Resources Division of Oil, Gas, and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

DEC 03 1990

Overnos Mil, Gas a l'impo

RE: Application for Permit to Drill Ute Tribal 3-12A3 660' FSL & 660' FEL SESE Sec. 12 T1S R3W Duchesne County, Utah

#### Gentlemen:

The original and two copies of captioned APD are enclosed for your review and I trust your approval. Pennzoil Exploration and Production Company requests that this APD and all related information submitted on this well be held confidential for that period of time permitted by regulations and law.

Should there be any question, please contact the undersigned.

Sincerely,

Pennzoil Exploration and Production Company

Danny L. Laman

Drilling Foreman

Enclosure

CONFIDENTIAL

# CONFIDENTIAL

OPERATOR Pennson Expl: Prod (H. 08)	85) DATE 10.11.90
WELL NAME the distal 3.10A3	
	DUNTY <u>Duchelre</u>
43-013-31094 Ung	dian (J) TYPE OF LEASE
HECK OFF:	
PLAT	NEAREST WELL
LEASE JSME	POTASH OR OIL SHALE
ROCESSING COMMENTS:	
talls within Cause order spar	cinay.
water Rumit	<u> </u>
PPROVAL LETTER:	(
PACING: R615-2-3 NA	R615-3-2
CAUSE NO. & DATE	R615-3-3
TIPULATIONS:	CONFIDENTIAL PERIOD
	EXPIRED ON 3 19-93
CC: BTA	ON 3-19-40
Needs water punit & Should	Chi make a limmercalor
mit Needs to come before the Bo	chedel in lange 131-3
to rove und the mount in	control of a contr



Norman H. Bangerter Governor Dee C. Hansen Executive Director Dianne R. Nielson, Ph.D.

# State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Dee C. Hansen 355 West North Temple 3 Triad Center, Suite 350
Nielson, Ph.D. Salt Lake City, Utah 84180-1203
Division Director 801-538-5340

December 14, 1990

Pennzoil Exploration & Production Company P. O. Box 290 Neola, Utah 84053

#### Gentlemen:

Re: <u>Ute Tribal 3-12A3 - SE SE Sec. 12, T. 1S, R. 3W - Duchesne County, Utah</u> 660' FSL, 660' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R6I5-3-2, Oil and Gas Conservation General Rules, subject to the following stipulations:

- 1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
- 2. Under authority of Rule R615-3-2.2, the Division requires that any wells located adjacent to an area for which drilling units have been established, shall conform with the pattern location and siting of wells within the established drilling unit area. Therefore, upon completion of this well as an oil well producing from the Upper Green River pool, the operator shall be required to submit a request for Agency Action to the Board of Oil, Gas and Mining to modify the order in Cause No. 131-3 to ensure orderly development of the pool.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification within 24 hours after drilling operations commence.
- 2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
- 3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2 Pennzoil Exploration & Production Company Ute Tribal 3-12A3 December 14, 1990

- 4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (80l) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-93l8.
- 5. Compliance with the requirements of Rule R6l5-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
- 6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (80I) 538-6121.
- 7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31294.

Sincerely.

Associate Director, Oil & Gas

tas

Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs

J. L. Thompson

we14/1-16

Form 3160-3 (November 1983) (formerly 9-331C)

# UNITED STATES

SUBMIT IN 7 PLICATE. (Other institute) ons on

Form approved.
Budget Bureau No. 1004-0136 Expires August 31, 1985

DEPARIMENT OF THE INTERIOR	5. LEASE DESIGNATION AND SERIAL NO.	
BUREAU OF LAND MANAGEMENT	14-20-H62-1576 6. IF INDIAN, ALLOTTER OR TRIBE NAME	
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK	Ute Indian Tribe	
DRILL DEEPEN DEEPEN PLUG BACK	7. UNIT AGREEMENT NAME	
OIL CAS SINGLE MULTIPLE XXX  WELL OTHER ZONE ZONE  2. NAME OF OPERATOR	8. FARM OR LEASE NAME Ute Tribal	
Pennzoil Exploration and Production Company	9. WELL NO.	
3. ADDRESS OF OPERATOR	3-12A3  10. FIRLD AND POOL OR WILDCAT	
P.O. Box 290 Neola, Utah 84053  4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)	Upper Green River Oil	
At surface	11. SEC., T., E., M., QR BLE. AND SURVEY OR AREA	
SESE 660' FSL & 660' FEL At proposed prod. sone  43-013-3129   ALL AT PROPOSED TOWN OR PORT OFFICE*	Sec. 12 T1S R3W	
14. DISTANCE IN MILES AND DIRECTION FROM MEAREST TOWN OR POST OFFICE®	12. COUNTY OR PARISH 13. STATE	
4.2 mies northeast of Bluebell, Utah	Duchesne Utah	
PROPERTY OR LEASE LINE, FT. 660' FSL & FEL 640 (Also to pearest drig, unit line, if any)	ACRES ASSIGNED	
19. PROPOSED DEPTH TO NEAREST WELL, DRILLING, COMPLETED. Wasatch	ar or cashe tools	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	22. APPROX. DATE WORK WILL START	
Ungraded Ground Level = 6472'	Upon approval of permi	
23. PROPOSED CABING AND CEMENTING PROGRAM		
SIZE OF HOLE SIZE OF CASING WEIGHT PAPOOT SETTING DEPTH	QUANTITY OF CEMENT	
11 0 0/0 201	QUANTITY OF CEMENT	
7 7/8" 5 1/2" 17# 9800' 22	220 cu.ft.	
d. Thirteen Point Surface Use Plan e. Location Schematic with Rig Layout f. Cross-Section Schematic of Wellsite g. Topo Map showing area roads, producir h. Map showing access road to wellsite.  2. Surface Equipment and Completion Procedure to be submitted by  IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If proposal is to deepen or plug back, give data on present procedure. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measure	y Sundry Notice	
preventer program, if any.  24.  Danny L. Laman Office = 801 353-4397 Home = 801 78		
SIGNED Lange L. Lunum TITLE Drilling Foreman	DATS 12-17-90	
(This space for Federal or State office use)  PERMIT NO. 43-013-31294  ASSISTANT DISTRICT  MANAGER MINERALS	DATE 3/1/91	
CONDITIONS OF APPROVAL, IF AN I:  CONDITION TO  See Instructions On Reverse Side	NS OF APPROVAL ATTACHED OPERATOR'S COPY	
iv OG*M	u dannument ne arennu në the	

DATE: FEB 25 1991

REPLY TO ATTN OF:

Superintendent, Uintah and Ouray Agency

SUBJECT:

Concurrence Letter for Pennzcil Explor. & Prod. Company - Well Ute Tribal #3-12A3, Sec. 7 & 12, T1S-R3W

TO:

Bureau of Land Management, Vernal District Office Attention: Mr. Dave Little

We recommend approval of the Application for Permit to Drill on the subject well.

Based on available information received on December 05, 1990, we have cleared the proposed location in the following area of environmental impact.

	X	NO	Listed threatened or endangered species
YES	X	ио	Critical wildlife habitat
YES	X	NO	Archaeological or cultural resources
YES		ИО	Air quality aspects (to be used only if
			Project is in or adjacent to a Class I area of attainment)
YES		NO	Other (if necessary)

ADDITIONAL STIPULATIONS: Please see attached Bureau of Indian Affairs Environmental Analysis, Item =6, to be included in the Application for Permit to Drill.



OPTIONAL FORM NO. 10 (REV. 1-80) GSA FPMR (41 CFR) 101-11.6 5010-114

#### ENVIRONMENTAL ANALYSIS

LLASE HOLLER (PLHMITTLE): SITE LOCATION:

EAST. YELL NO.	14-20-H62-157
MT.	12/05/90

1. SLIT DISCRIPT	
ELEVATION PRECI	PITATION 12-16 inches annually
Slope about 3% on level longway plain Soils	
The state of the s	
2. WEGETATION	
	T GROUND COVER 408
DOMINANT VEGETATION Black sage, yellow rush,	prickly pear, squirl tail, western
wheat, needle & thread,	three awn, Indian rice.
OBSERVED THREATENED AND ENDANGERED SPECIES None	
POTENTIAL FOR THREATENED AND ENDANGERED SPECIES Very	Slight
3. WILD SEE	
WILDLIFE OBSERVATIONS Mule deer, elk, rabbit,	rodents, sage hen,
PRESENT SITE UTILIZATION Mule deer, elk, rabb	its, rodents
POTENTIAL SITE UTILIZATION Mule deer, elk, rabb	ts, rodents
OBSERVED THREATENED AND ENDANGERED SPECIES NONe	
POTENTIAL FOR THEATENED AND ENDANGERED SPECIES Slight I area during winter months.	potential for bald eagle to fly over
4. EXISTING SITE IS	FS
RANGELAND XX IRRIGATED CROPLAND IRRIGATED PASTURELAND OTHER	D, Prime Timberiund, Pinyon/Juniper,
5. ENVIRONMENTAL LIPE	
ACRES DISTURBED 3.45 WILDLIFE HABITAT DISTURBED 3.45	PRODUCTION LOSSES 0.5AUM/yr.
OTHER IMPACTS:  long Team Where soil is disturbed	there will be a perminant scar on
the landscape, and the	long range production on the site
	and loss of grazing to wildlife
during the production 1	ife of the well.
	MODERATESLIGHT_XX
6. MITIGATION STIPULATIONS: One foot of top soil use in rehabilitatin	

ADDITIONAL STIPULATIONS:

Pennizoil will contact BIA after drilling is complete and fluids are removed from the reserve pit so that an agreement can be completed on the reserve pit.

7. CUNSULTATION: Gil Mitchell, Mitchell Construction, Kal Killian, Skew & Hamilton Constructions, Lawrence Kay, Uintah Engineering, Tracey Monks, Tracey Monks Constructions, Ralph Brown, BLM, Charles Camerson, BIA, Brent Weehles, Robinson Construction, Lonnie Nephi, UIT, Dale Hanberg, BIA.

#### 8. UMANDIDABLE ADVERSE EFFECTS:

NOWE OF THE ADVERSE EFFECTS LISTED IN LITEM #5 ABOVE CAN BE AVOIDED IN A PRACTICAL HANNER EXCEPT THOSE WHICH WERE MILITIGATED IN LITEM #6 ABOVE.

#### 3. RELATIONSHIP BETWEEN SHORT-TERM AND LUNG-TERM PRODUCTIVITY:

AS LONG AS OIL OR GAS WELLS ARE PRODUCING AND THE ACCESS ROADS ARE RETAINED THERE WILL BE A TOTAL LOSS OF PRODUCTION ON THE LAND AND THE ENVIRONMENTAL EMPACTS WILL CONTINUE TO EFFECT THE SURROUNDING AREA. MORNALLY OIL AND GAS HELLS PRODUCE FROM 15 TO 30 YEARS. AFTER THE WELLS STOP PRODUCING IT IS STANDARD POLICY TO RESTORE THE SURFACE TO MEAR ITS ORIGINAL CONDITION. OCCASIONALLY THE SITE OCCUPIED BY THE WELL OR ROAD CAN BE RESTORED TO PRODUCE AS MUCH AS IT ORIGINALLY PRODUCED, BUT MOST OF THE TIME IT CANNOT BE RESTORED TO 1TB ORIGINAL PRODUCTIVE CAPACITY. THEREFORE, THE LAND SURFACE PRODUCTIVE ABILITY WILL BE PERMANENTLY DANASED.

#### 10. IRREVERSABLE AND IRRETRIEVABLE COMMITTMENT OF NATURAL RESCURCES:

THERE ARE TWO IRREVERSABLE AND IRRETRIEWABLE RESOURCES COMMITTED IN THIS ACTION:

- A. OIL OR GAS: OIL AND GAS ARE A NON-RENEWABLE RESOURCE. ONCE IT HAS BEEN REMOVED IT CAN NEVER BE REPLACED,
- B. DAMAGE TO THE LAND SURFACE: THERE ARE THREE CAUSES OF DAMAGE TO THE SOIL SURFACE DUE TO OIL OR GAS WELLS AND HOMO CONSTRUCTION. (1) GRAVEL IS HOMALLY HALLED ONTO THE SITE AS A PAD POUNDATION FOR EQUIPMENT AND TRAFFIC TO GREE-ATE ON. GRAVEL HAS LOW FERTILLITY AND LOW MATERHOLDING CAPACITY. THEREFORE, AFTER THE SITE IS RESTORED THE SUMMEL MUST EITHER BE REMOVED, OR INCORPORATED INTO THE NATURAL LANDSCAPE. (2) CHEMICALS ARE OFTEN EITHER ACCIDENTLY SPILLED OR INTENTIONALLY APPLIED TO THE SITE FOR NEED AND DUST CONTROL. GENERALLY, THE CHEMICALS ARE CRUDE OIL OR PRODUCTION WATER, WHICH MAY CONTAIN AS MUCH AS 20,000 PPM OF SALTS. ONCE CHEMICALS BECOME INCORPORATED IN THE SOIL THEY ARE DIFFICULT TO REMOVE AND INTERFERE WITH THE SOILS ABILLITY TO PRODUCE VEGETATION. (3) SOIL COMPACTION OCCURS WHERE THE SITE IS SUBJECT TO STORMY NET WEATHER AND TRAFFIC FROM HEAVY TRUCKS AND EQUIPMENT. EACH OF THE ABOVE ITEMS CAUSE SOIL DAMAGE AND AFTER THE SITE IS RESTORED THE PRODUCTIVE ABILLITY OF THE SOIL WILL BE DAMAGED PERMANENTLY.

#### 11. ALTERNATIVES:

- A. No Program This alternative refuses the authorization of the Application for Permit to Drill. This action would not allow the operator to enter upon the land surface to drill for oil or gas. Because the minerals usually cannot be developed without encrouchment on the surface, the mineral estate is normally and tradionally designated as dominant, and the surface ownership subservient. The mineral operator's conduct is generally prescribed only by the rule of reasonableness and the limitations that he is not permitted to act in a manton or negligent maner. Within their confines, the operator has considerable latitude in the necessary use of the surface to produce and develope the mineral estate. Therefore, if the Application for Permit is not signed, the operator would undountedly initiate court proceedings against the surface owner, in this case the Ute Tribe and the Bureau of Indian Affairs. Historically the courts have upheld the right of the mineral owner to develope the mineral resources regardless of the surface owners desire. Therefore, the operator's rights will likely be upheld if B.I.A. refuses to sight the Application for Permit to drill this well.
- B. Sign the Application for Permit to Brill: The alternative authorizes the operator to drill for oil or gas as prescribed in the application, providing it complies with stipulations which are considered reasonable as specified in pagagraph 4 above under miticating measures.

NY IRI <mark>NYI</mark> N		
		EISTED THREATENED OR ENDANGIHED SPECIES.
		CRITICAL WILDLIFE HABITAT
ns XX.	No	HISTORICAL OR COLTURAL PLESOURCES.
/LS	No	AIR HEALTHY ASPECTS (TO BE USED ONLY IF PHOJECT IS IN OR ADJACENT TO A CLASS I AREA OF
		ATTAINMENT),
REMAKS: .		
THE NECESS	ARY SURFAC	E PROTECTION AND REMABILITATION REQUIREMENTS ARE SPECIFIED ABOVE.

#### 13. DECLARATION:

IT HAS BEEN DETERMINED THAT THE DRILLING OF THE ABOVE WELL IS NOT A FERERAL ACTION SIGNIFICANTLY AFFECTING THE QUALITY OF THE ENVIRONMENT AS HOULD REQUIRE THE PREPARATION OF AN ENVIRONMENTAL STATEMENT IN ACCORDANCE WITH SECTION 102 (2)(C) OF THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969 (42 USC 4331) (2) (C).

UNITED STATES GOVERNMENT

# memorandum

1/sh

February 22, 1991

DATE:

Superintendent, Uintah & Ouray Agency

REPLY TO ATTN OF:

ROW-H62-91-33, Pennzoil Exploration Co.

SUBJECT:

Section(s) 7 & 12, Township 1 South Range 3 West

Bureau of Land Management, Vernal District Office

TO: Attn: Dave Little

We (concur with) (recommend) approval of the Application for Permit to drill on the subject well (s).

Based on available information on <u>December 05, 1990</u> we have cleared the proposed locations in the following areas of environmental impact.

YES	XX	NO	Listed Threatened or Endangered Species
YES	_XX_	ио	Critical Wildlife Habitat
	_XX_	NO	Archeological or Cultural Resources
YES		NO	Air Quality Aspects (to be used only if
		project	t is in or adjacent to a Class 1 Acre of
		Attainn	ment)
YES		мо	Other (If necessary)





## United States Department of the Interior

## BUREAU OF INDIAN AFFAIRS UINTAH AND OURAY ACENCY

Fort Duchesne, Utah 84026 (801) 722-2406 Ext.

IN REPLY REFER TO:

Real Estate Services Ten. & Mgmt. FEB 2 2 1991

Pennzoil and Exploration Company 700 Milam Houston, TX 77002

Dear Sirs:

This is your authority to proceed with construction of the following right-of-way.

Access Road Lot 4 (SWSW4) of Section 7, Township 1 South, Range 3 West, U.S.B. & M., Uintah County, Utah.

please abide by the following stipulations: 1. One foot of top soil will be stock piled for future use in rehabilitating the site. 2. Pennzoil will contact the Bureau of Indian Affairs after drilling is complete and fluids are removed from the reserve pit so that an agreement can be completed on the reserve pit.

Upon completion of construction, please submit an Affidavit of Completion with accompanying Certification for right-of-way.

If you have any questions to the said right-of-way, you may contact Roland McCook, Realty Officer or Thomasina Appah, Realty Clerk, at (801) 722-2406 Ext. 48/49.

Superintendent





### United States Department of the Interior

## **BUREAU OF INDIAN AFFAIRS**

**UINTAH AND OURAY AGENCY** 

Fort Ducheane, Utah 84026 (801) 722-2406 Ext.

IN REPLY REFER TO: Real Estate Services Aca. & Disp.



Well No. 3-12A3

#### MINERAL ACCESS AGREEMENT ON INDIAN OWNED LANDS

The purpose of this agreement is to regulate the surface development of Indian lands which have been leased for oil and gas development. An approved agreement must be obtained prior to the commencement of any surface disturbing activity and will be in effect for the term of the lease and the agreed upon contractual provisions referenced therein, if not revoked under the terms in Item 4 of this agreement.

1. The authorized officer for the Bureau of Indian Affairs, in conjunction with the Indian surface owner and Tribe hereby grants permission to:

Pennzoil Exploration and Production Company

P.O. Box 2967

Houston, Tx. 77252-2967
To improve and/or construct and maintain a development corridor which may contain an access road, pipelines, powerlines, communication lines and well pads on the following trust land (reference lease number):

SE/4SE/4 Section 12, T1S-R3V, U.S.B.AM.

Duchesne County, Utah

Lease No. 14-20-H62-1576

- 2. In consideration of the approval of this agreement, the above company agrees to adhere to all lease provisions, A.P.D. stipulations and regulations of the Secretary of the Interior now or hereafter in force relative to such leases.
- 3. The company herewith submits an estimated surface damage fee in the 2.54 acres. Pending Agency  $\cdot$  amount of  $\frac{$1270.00}{}$ , for appraisal and the Affidavit of Completion.
- 4. This agreement will remain in effect unless revoked upon 30 days written notice by the Superintendent or the appropriate official. depending upon circumstances.
- 5. The permittee will submit a certified survey map of the proposed access road and/or well pad with this permit. The map must adhere to all specifications and requirements of the Branch of Real Estate Services, Uintah and Ouray Agency, Bureau of Indian Affairs. Upon completion of

construction, an Affidavit of Completion will be submitted by the company to certify that the construction completed was in accordance to the specifications certified to on the survey map accompanying this agreement.

- 6. The company agrees to furnish a bond in the amount of \$ utilize said company's existing Nationwide Oil and Gas Bond No to quarantee performance of this permit.
- 7. The company agrees to contact immediately the BIA and BLM if cultural resources are discovered during construction or any time during the course of daily operations.
- 8. ADDITIONAL STIPULATIONS:

WITNESS:

AUTHORIZED AGENT
Nichael L. NcCullough, Agent and
Attorney-in-Fact
Pennzoil Exploration and Production Company
COMPANY NAME
P.o. Box 2967

Houston, Texas 77252-2967

CITY/STATE ZIP CODE

APPROVED:

As per Ute Tribal Ordinance No. 89-10, dated December 4, 1989.

Revised November 1990 Date NOS Received: November 26, 1990

## CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company/Operator: Pennzoil Exploration & Production Company

Well Name & Number: Ute Tribal No. 3-12A3

Lease Number: 14-20-H62-1576

Location: SE SE, Section 12, Township 1 South, Range 3 West

Surface Ownership: Ute Tribal

#### NOTIFICATION REQUIREMENTS

Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well

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Casing String and - at least twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and Related - at least twenty-four (24) hours prior to initiating pressure tests.

First Production - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

#### A. DRILLING PROGRAM

## 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed.

The Vernal District Office shall be notified, at least twenty-four (24) hours prior to initiating pressure tests, in order to have a BLM representative on location during pressure testing.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

The Vernal District Office shall be notified at least twenty-four (24) hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

#### 4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

#### 5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the Authorized Officer (AO).

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the production casing.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

#### 6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified during regular work hours (7:45 a.m. - 4:30 p.m., Monday through Friday, except holidays), at least twenty-four (24) hours <u>PRIOR</u> to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells, as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated, or the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of thirty (30) days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the AO. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram, as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4, shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations, as specified in Onshore Oil and Gas Order No. 3, shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his/her representative or the appropriate Surface Managing Agency.

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Gerald E. Kenczka Petroleum Engineer	(801) 781-1190
Ed Forsman Petroleum Engineer	(801) 789-7077
BLM FAX Machine	(801) 789-3634

#### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous:

Unused fracturing fluids or acids.

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids.

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt wastes.

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation, and miscellaneous solids

#### B. THIRTEEN POINT SURFACE USE PROGRAM:

#### 1. Planned Access Roads

A Right-of-Way Application is needed from BIA for all off lease portion of access road, approximately 1200 ft  $\pm$ .

#### 2. Location of Existing and/or Proposed Facilities

The required paint color is "Pennzoil Fawn", which is the predominant color of the facilities at other Pennzoil locations in the region.

#### 3. Methods for Handling Waste Disposal

The liner will have sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 4. Well Site Layout

Access to the well pad will be from the east.

#### Fencing Requirements

All pits will be fenced according to the following minimum standards in the Surface Use Plan, except please amend 30 inch net wite to 39 inch net wire. Thirty-nine inch net wire shall be used.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING ENTITY ACTION FORM - FORM 6

OPERATOR PENNZOIL EXPL. & Prod. Co.
ADDRESS R.O. BOX DAIGT
Houston, Tx 11252-2961

OPERATOR ACCT. NO.

ACTION	CURRENT	NEW	API NUMBER	D WELL NAME		T						
CODE		ENTITY NO.	:	W		QQ	SC	WELL TP	LOCATIO RG	COUNTY	SPUD DATE	EFFECTIVE
A	99999	11209	4301331294	Ute 3-12 A3 osed Zone-GREV		SESE	12	15	<del>                                     </del>	Duchesne	alalai	DATE
WELL 1 CO	OMMENTS: ]	Indian L	ease Prop	osed Zone-Glev		<u> </u>	1-10	140	1000	Judicone	010	3 13 91
		rield- bli	uebell	THE DOING ORPA							s	
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WELL 2 CO	MMENTS:					<u>.                                    </u>		<u> </u>	<u>!</u>	[		
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CTION COD	ES (See ins	tructions o	n back of form)		10)15	(6)3		511				
A -	Caranii20 U	iew entity t	or new well (sing	le well only)	١	3	C. S.	SU		Elizabel	LO XCI	N D :

B - Add new well to existing entity (group or unit well)
C - Re-assign well from one existing entity to another existing entity
D - Re-assign well from one existing entity to a new entity
E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

MAR 1 5 1991

**DIVISION OF OIL GAS & MINING**  Signature

# STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Pennacil Expl. & Prod COMPANY MAN: Donnie Smapp WELL NAME: UTF-TRIBAL. 3-12A-3 API #: 4/3 0/3-3/274 QTR/QTR: 8E/SE SECTION: 12 TWP: 15 RANGE: 3 W CONTRACTOR: GRACE - # 186 PUSHER/DRLR: R. Sandet. INSPECTOR: JBERRIER DATE: 4291 OPERATIONS: Tripping for DST-GR SPUD DATE: 3-14-9/ TOTAL DEPTH: 8097 DRILLING AND COMPLETIONS WELL SIGN BOPE RESERVE PIT ∠ APD FLARE PIT BURN PIT H2S BLOOIE LINE SANITATION HOUSEKEEPING VENTED/FLARED PRODUCING FM(S): PLUGGING AND ABANDONMENT TYPE/SIZE PLUGS: INTERVAL PERFORATIONS: CASING SIZE: \_\_\_\_ PULLED: YES / NO CUT AT:\_\_\_\_ PLUGS TESTED: HOW: WOC: MARKER: SURFACE: PLATE: RECLAMATION: CONTOURED: RIPPED: REHAB'D:\_\_\_\_ LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE REMARKS:



APR 1 0 1991

DIVISION OF OIL GAS & MINING

Pennzoil

Ute Tribal 3-12A3
Section 12
Township 1S
Range 3W
Contractor Grace Drilling #186
3-18-91
Tested by Paul Yoder

43-013-31294

conf

## QUICK TEST INC. OFFICE (801) 789-8159

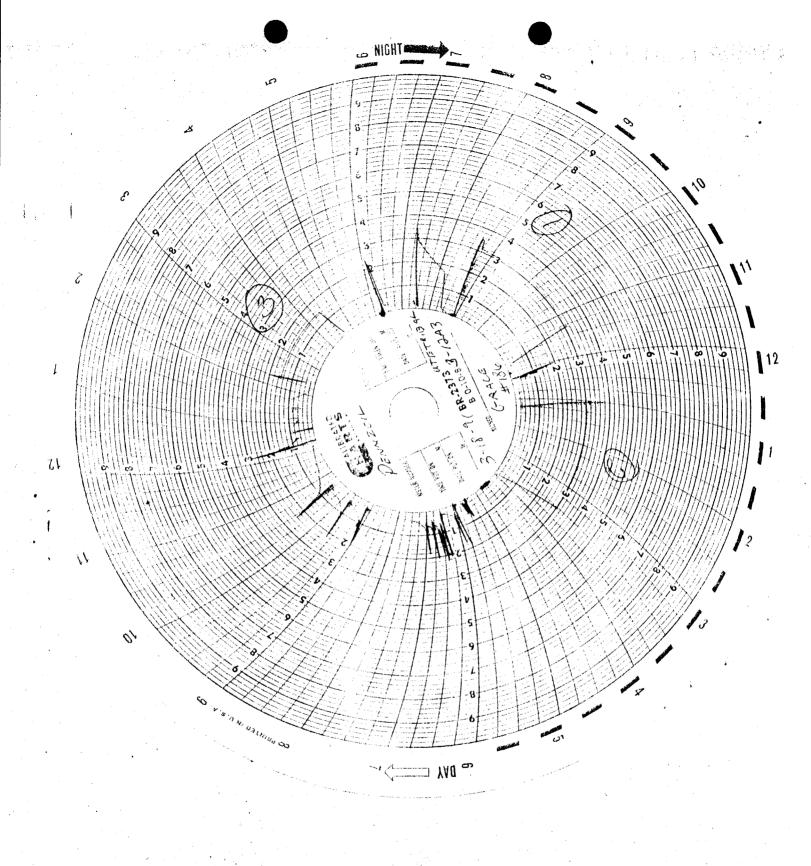
# Pennzoil Ute Tribal 3-12A3 3-18-91

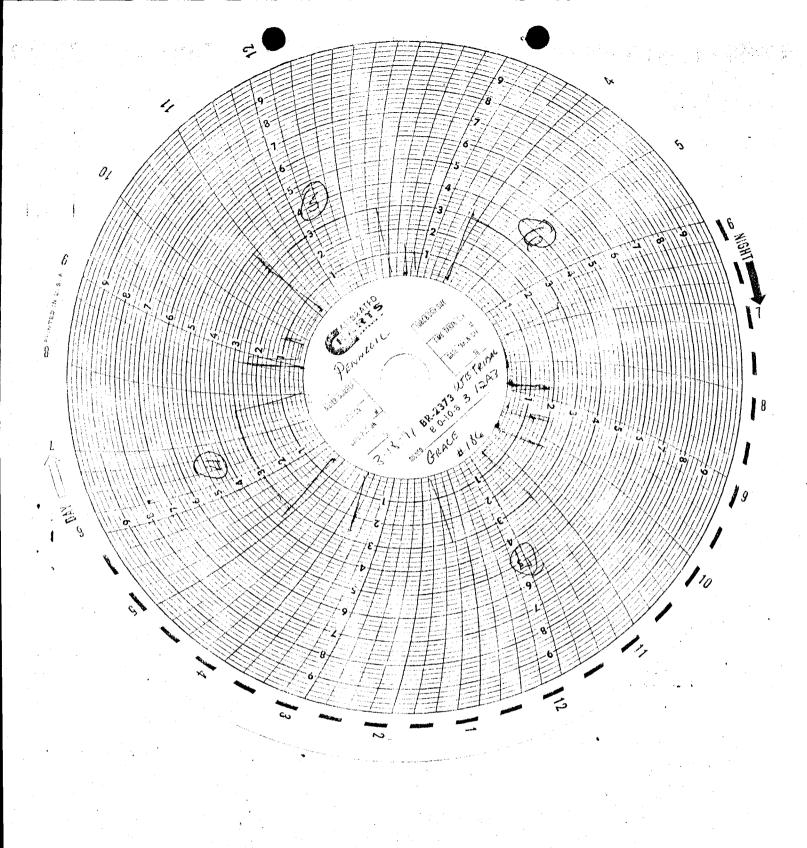
TEST	#	ITEM TESTED	PRESSURE	MIN. HELD	RESULTS
	1	Pipe rams, 1st choke, 1st kill	250 3000	5 10	No visible leaks No visible leaks
	2	Pipe rams, HCR, check valve	250 3000	5 10	No visible leaks No visible leaks
	3	Hydril, HCR, 1st kill	250 3000	5 10	No visible leaks No visible leaks
	4	Blind rams, 1st kill, 1st schoke manifold valves	et 250 3000	5 10	No visible leaks No visible leaks
	5	HCR, 2nd set choke manifold valves	250 3000	5 10	No visible leaks No visible leaks
	6	HCR, 3rd set choke manifold valves	250 3000	5 10	No visible leaks No visible leaks
	7	Upper kelly cock	250 3000	5 10	No visible leaks No visible leaks
	8	Lower kelly cock	250 3000	5 10	No visible leaks No visible leaks
	9	Safety valve	250 3000	5 10	No visible leaks No visible leaks

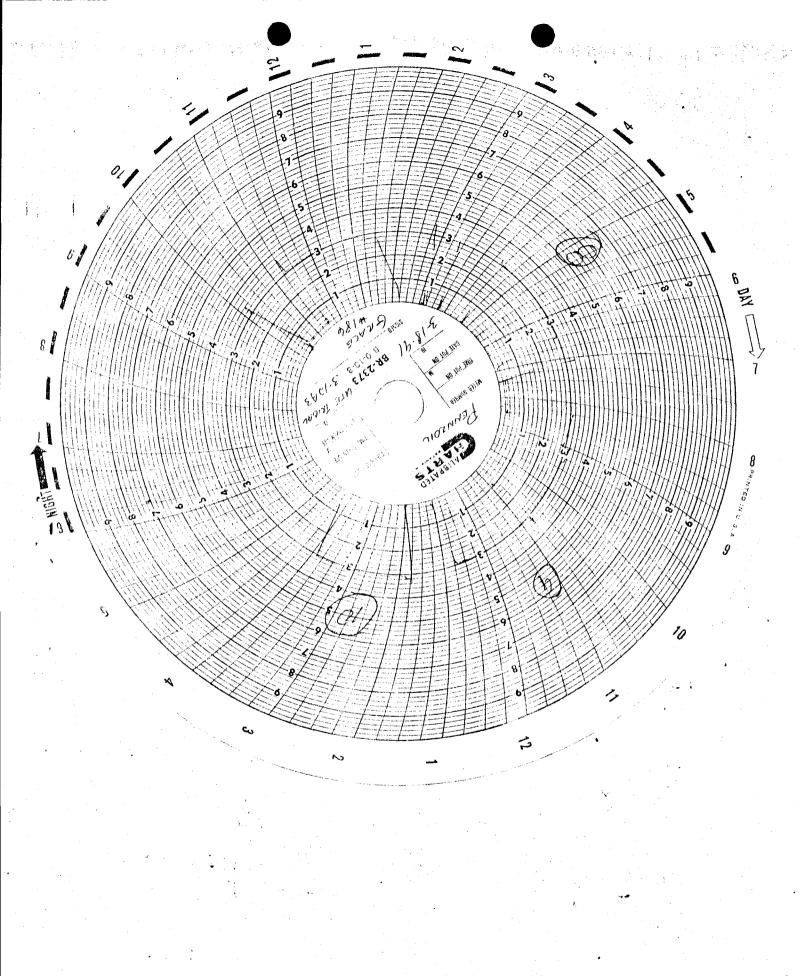
### QUICK TEST INC. OFFICE (801) 789-8159

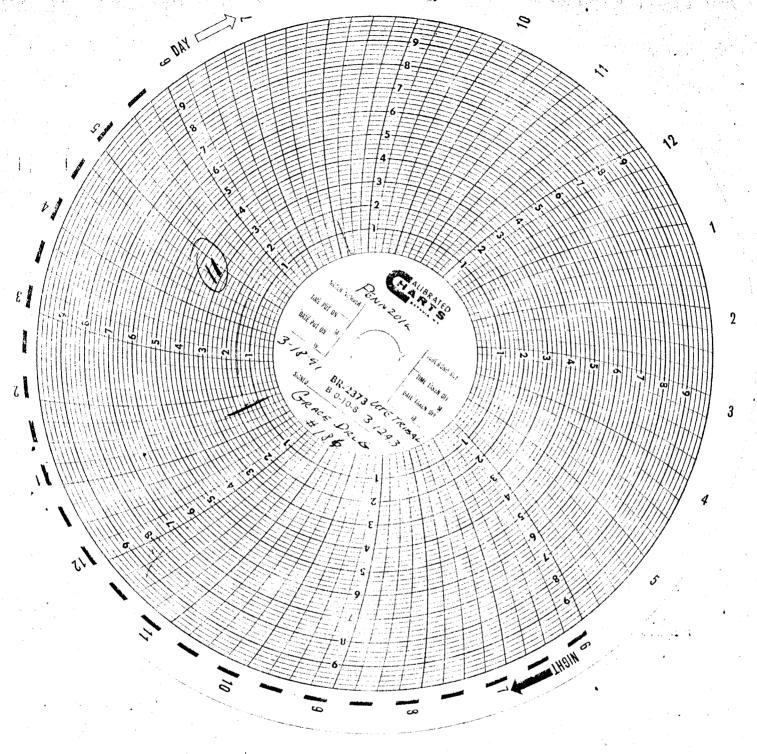
### Pennzoil 3-18-91

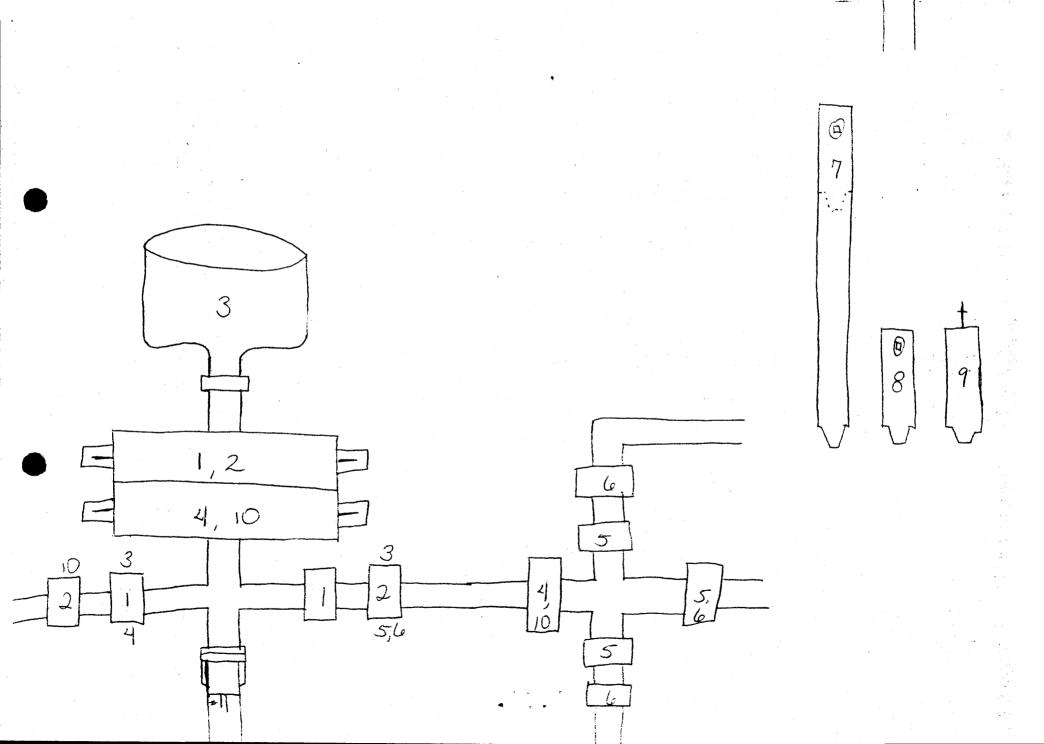
TEST # ITEM TESTED	PRESSURE	MIN. HELD	RESULTS	
10 Blind Rams, 1st choke man valves, check valve	ifold 3000	10	No visible lea	۲S
11 Casing	1500	30	No visible lead	ςs











REPORT NO. 125159

PAGE NO. 1

STAR

CORFIDENTIAL

Schlumberger Transient Data Report

Schlumberger

TEST DATE: 10-APR-1991 Pressure Data Report

43-013-31294

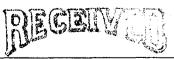
COMPANY: PENNZOIL COMPANY	WELL: 3-12A3 UTE - DST #2				
TEST IDENTIFICATION	WELL LOCATION				
Test Type MFE-OH-DST	Field BLUEBELL-ALT.				
Test No TWO   Formation GREEN RIVER	County DUCHANE				
Test Interval (ft) 9080 to 9600	State UTAH				
Depth Reference KB	Elevation (ft) 6492				
HOLE CONDITIONS	MUD PROPERTIES				
Total Depth (MD/TVD) (ft) 9600	Mud Type NEW DRILL				
Hole Size (in) 7.875	Mud Weight (1b/gal) 8.7				
Casing/Liner I.D. (in)	Mud Resistivity (ohm.m) 9.2 © 68F				
Perf'd Interval/Net Pay (ft) / 40	Filtrate Resistivity (ohm.m) 9.0 © 68F				
Shot Density/Diameter (in)	Filtrate Chlorides (ppm) 400				
INITIAL TEST CONDITIONS	TEST STRING CONFIGURATION				
Initial Hydrostatic (psi) 4240	Pipe Length (ft)/I.D. (in) 8890 / 3.80				
Gas Cushion Type	Collar Length (ft)/I.D. (in) 150 / 2.25 Packer Depths (ft) 9074, 9080				
Liquid Cushion Type	Bottomhole Choke Size (in) 0.937				
Cushion Length (ft)	Gauge Depth (ft)/Type 9093/MECH.				
NET PIPE RECOVERY	NET SAMPLE CHAMBER RECOVERY				
Volume Fluid Type Properties	Volume Fluid Type Properties				
5 ft MUD CUT OIL	0.02 cuft Gas				
215 ft MUD(TR.OIL) Rw9.2@68F 400ppm	50 cc 0il				
	2400 cc Mud Rw9.2@68F 400ppm				
	Pressure: 100 GOR: 64 GLR: 1				
INTERPRETATION RESULTS	ROCK/FLUID/WELLBORE PROPERTIES				
Model of Behavior	Oil Density (deg. API)				
Fluid Type Used for Analysis	Basic Solids (%)				
Reservoir Pressure (psi)	Gas Gravity				
Transmissibility (md.ft/cp)	GOR (scf/STB)				
Effective Permeability (md)	Water Cut (%)				
Skin Factor/Damage Ratio Storativity Ratio, Omega	Viscosity (cp)				
Interporos.Flow Coef.,Lambda	Porosity (%)				
Distance to an Anomaly (ft)	Reservoir Temperature (F) 138				
Radius of Investigation (ft)	Form. Vol. Factor (bbl/STB)				
Potentiometric Surface (ft)					

## PRODUCTION RATE DURING TEST: Data Report

#### COMMENTS:

THIS TEST WAS MECHANICALLY SUCCESSFUL. THE ZONE PRODUCED MUD CUT OIL AND MUD WITH A TRACE OF OIL.

THE GENERAL CHARACTER OF THE BUILDUP PLOTS SUGGEST THAT THE ZONE HAS LOW EFFECTIVE PERMEABILITY AND WELLBORE DAMAGE AT THE TIME AND CONDITIONS OF THE TEST.



APR 1 5 1991

REPORT NO. 125159 PAGE NO. 2

## SEQUENCE OF EVENTS

Schlumberger

	(HR:MIN)	DESCRIPTION	(MINS)	BHP (PSIA)	(PSIG)
		SET PACKER	-3		
		START FLOW-1"BLOW IN WATER 1.5" BLOW IN WATER	0 3	62	
	19:37	END FLOW & START SHUTIN	3	80	
	20:37	END SHUTIN	63	2324	
11-APR	20:45 20:50 21:00 21:10 21:25 21:40 21:55 22:10 22:25 22:40 22:55 23:10 23:25 23:40 23:55 00:10 00:25	2" BLOW IN WATER 3" BLOW IN WATER 3" BLOW IN WATER 4" BLOW IN WATER 4.25" BLOW IN WATER 3.50" BLOW IN WATER 1.75" BLOW IN WATER 1.50" BLOW IN WATER	71 76 86 96 111 126 141 156 171 186 201 216 231 246 261 276 291	92	
	00:40	END FLOW & START SHUTIN	306	119	
	02:40	END SHUTIN	426	2030	
	02:45	PULLED PACKERS LOOSE PULLED LOOSE EASILY,NO FILL	431	4137	

REPORT NO. 125159

PAGE NO. 3

#### DISTRIBUTION OF REPORTS

Schlumberger

SCHLUMBERGER has sent copies of this report to the following:

PENNZOIL COMPANY P.O. BOX 2967 27TH FLOOR HOUSTON, TX 77252 Attn: GREG STEVENS (2 copies)

PENNZOIL COMPANY P.O. BOX 290 NEOLA, UT 84053 Attn: DANNY LAMAN (1 copy)

UTAH OIL, GAS & MINING 355 WEST NORTH TEMPLE SUITE 350 SALT LAKE CITY, UT 84180 ( 1 copy)



DIVISION OF OIL GAS & MINING

Any interpretations or recommendations are opinions and necessarily based on inferences and empirical factors and assumptions, which are not infallible. Accordingly, Schlumberger (Flopetrol Johnston) cannot and does not warrant the accuracy of correctness of any interpretation or measurement. Under no circumstances should any interpretation or measurement be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving risk to the safety of any drilling venture, drilling rig or its crew or any other individual. The Customer has full responsibility for all drilling, completion, well treatment, and production procedure, and all other activities relating to the drilling or production operation.

## BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 125159

INSTRUMENT NO. 1401

DEPTH: 9091 FT

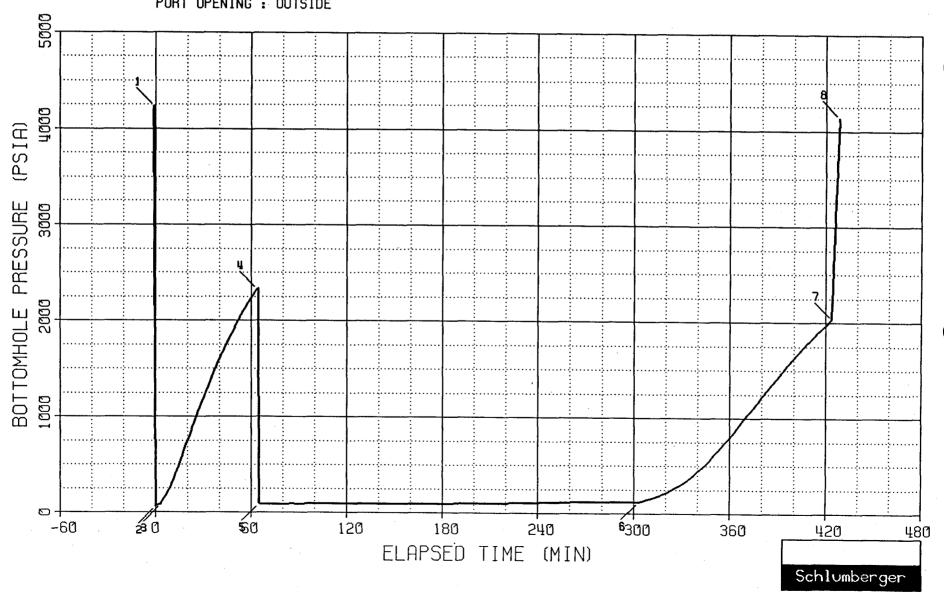
CAPACITY: 6400 PSI

PORT OPENING : OUTSIDE

COMPANY: PENNZOIL COMPANY

WELL: UTE TRIBAL 3-12A3

Mechanical Recorder Data

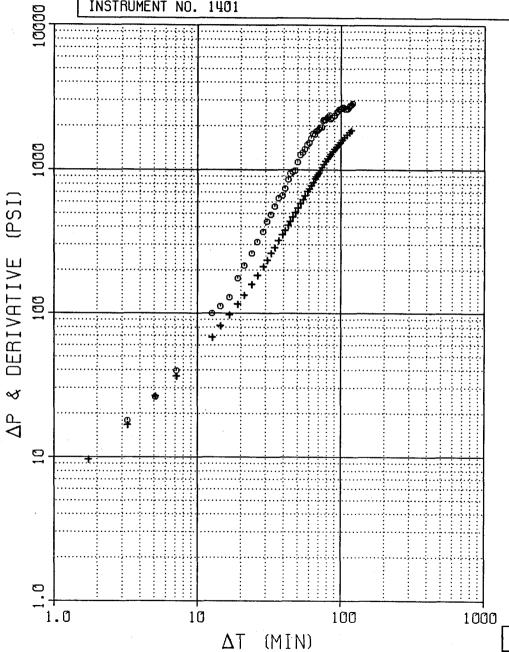


## LOG LOG PLOT

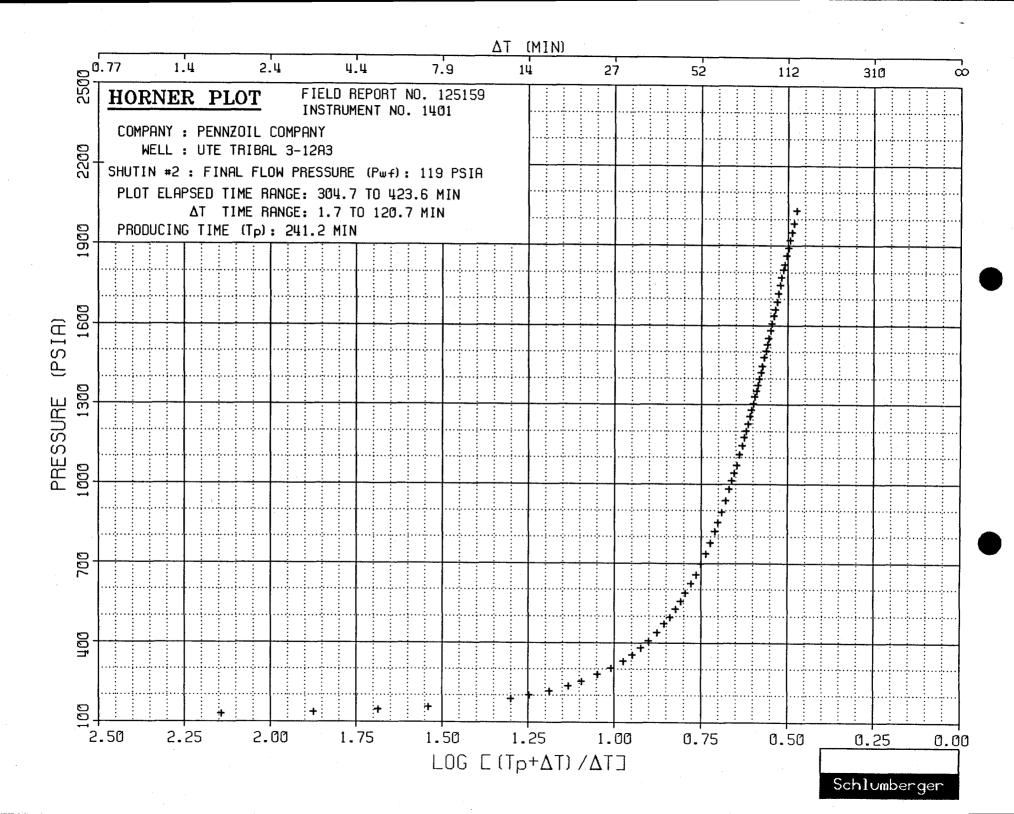
COMPANY: PENNZOIL COMPANY
WELL: UTE TRIBAL 3-12A3

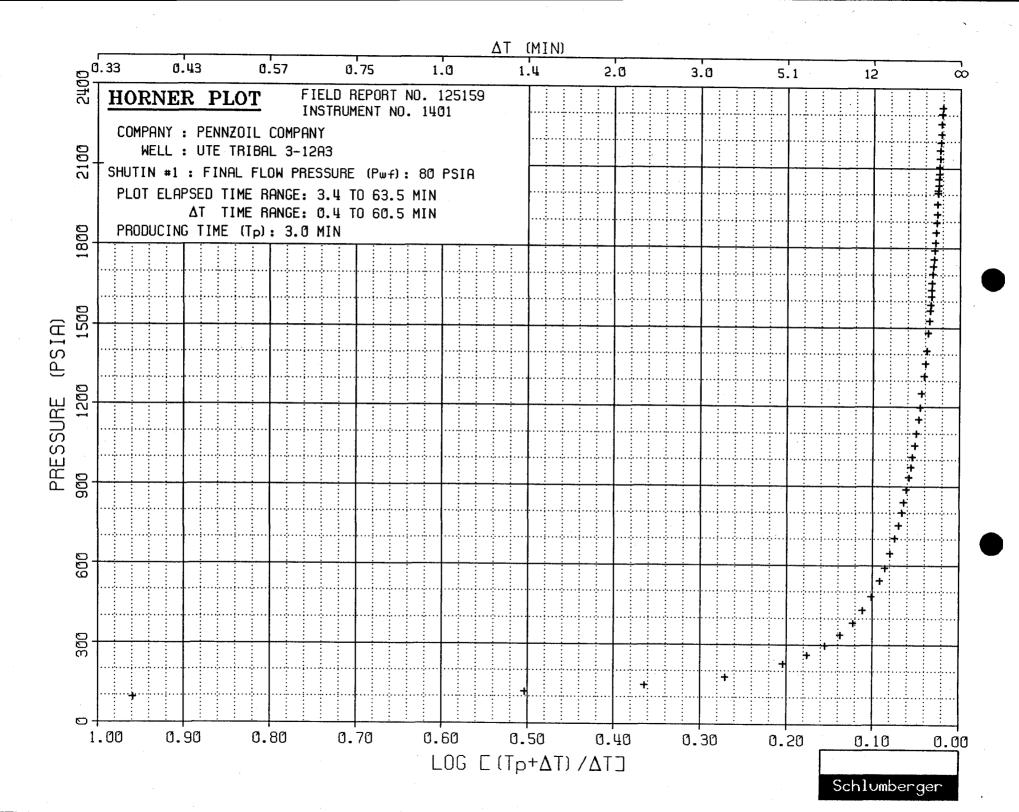
FIELD REPORT NO. 125159
INSTRUMENT NO. 1401

SHUTIN #2: PRODUCING TIME (Tp): 241.2 MIN FINAL FLOW PRESSURE (Pwf): 119 PSIA PLOT ELAPSED TIME RANGE: 304.7 TO 423.6 MIN  $\Delta$ T TIME RANGE: 1.7 TO 120.7 MIN



Schlumberger





COMPANY: PENNZOIL COMPANY

WELL: UTE TRIBAL 3-12A3

FIELD REPORT NO. 125159

INSTRUMENT NO. 1401

RECORDER CAPACITY: 6400 PSI

PORT OPENING: OUTSIDE

DEPTH: 9091 FT

TEMPERATURE: 138 DEG F

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	19:32:55	10-APR	HYDROSTATIC MUD	-1.09	4240
2	19:34:00	10-APR	START FLOW	0.00	62
3	19:37:00	10-APR	END FLOW & START SHUT-IN	3.00	80
4	20:37:29	10-APR	END SHUT-IN	63.49	2324
5	20:38:47	10-APR	START FLOW	64.78	92
6	0:36:56	11-APR	END FLOW & START SHUT-IN	302.94	119
7	2:37:39	11-APR	END SHUT-IN	423.65	2030
8	2:42:16	11-APR	HYDROSTATIC MUD	428.27	4137

## SUMMARY OF FLOW PERIODS \*\*\*\*\*\*\*\*\*\*\*

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1 2	0.00	3.00	3.00 238.16	62 92	80 119	62 92

#### 

	START	END		START	END	FINAL FLOW	
	ELAPSED	ELAPSED	DURATION	PRESSURE	PRESSURE	PRESSURE	PRODUCING
PERIOD	TIME, MIN	TIME, MIN	MIN	PSIA	PSIA	PSIA	TIME, MIN
1	3.00	63.49	60.49	80	2324	80	3.00
2	302.94	423.65	120.71	119	2030	119	241.16

TEST PHASE: FLOW PERIOD # 1

TIME				BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH:MM:SS	DD-MMM	TIME, MIN	TIME, MIN	PSIA
19:34:00	10-APR	0.00	0.00	62
19:37:00	10-APR	3.00	3.00	.80

TEST PHASE: SHUTIN PERIOD # 1 FINAL FLOW PRESSURE = 80 PSIA PRODUCING TIME = 3.00 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:37:00		3.00	0.00	80	0	
19:38:22	10-APR	4.37	1.37	118	38	0.5038
19:40:28	10-APR	6.46	3.46	175	95	0.2712
19:41:59	10-APR	7.99	4.99	226	146	0.2044
19:43:00	10-APR	9.00	6.00	260	180	0.1761
19:45:02	10-APR	11.04	8.04	338	258	0.1377
19:46:08	10-APR	12.14	9.14	383	303	0.1233
19:47:13	10-APR	13.21	10.21	430	350	0.1119
19:49:41	10-APR	15.69	12.69	543	463	0.0922
19:51:47	10-APR	17.79	14.79	647	567	0.0802
19:53:58	10-APR	19.96	16.96	752	672	0.0707
19:56:48	10-APR	22.80	19.80	886	806	0.0613
19:59:27	10-APR	25.45	22.45	1008	928	0.0545
20:01:32	10-APR	27.54	24.54	1100	1019	0.0501
20:03:50	10-APR	29.83	26.83	1198	1118	0.0460
20:06:41	10-APR	32.68	29.68	1316	1236	0.0418
20:09:04	10-APR	35.06	32.06	1413	1333	0.0388
20:14:26	10-APR	40.43	37.43	1617	1537	0.0335
20:19:32	10-APR	45.53	42.53	1791	1711	0.0296
20:24:50	10-APR	50.84	47.84	1964	1884	0.0264
20:30:14	10-APR	56.23	53.23	2135	2055	0.0238
20:36:32	10-APR	62.53	59.53	2300	2220	0.0214
20:37:29	10-APR	63.49	60.49	2324	2244	0.0210

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
20:38:47 20:55:54 21:12:16 21:28:07 21:46:00 22:03:22 22:22:23 22:37:48 22:52:52 23:08:57	10-APR 10-APR 10-APR 10-APR 10-APR 10-APR 10-APR 10-APR 10-APR	64.78 81.90 98.27 114.12 132.00 149.36 168.38 183.80 198.87 214.95	0.00 17.12 33.49 49.34 67.22 84.58 103.60 119.02 134.09 150.17	92 88 91 92 93 93 94 96 99
23:27:56	10-APR	233.94	169.16	107

TEST PHASE: FLOW PERIOD # 2

TIME				BOT HOLE
OF DAY	DATE	ELAPSED	DELTA	PRESSURE
HH:MM:SS	DD-MMM	TIME, MIN	TIME, MIN	PSIA
23:45:58	10-APR	251.97	187.19	113
0:02:32	11-APR	268.53	203.75	118
0:20:55	11-APR	286.92	222.14	119
0:36:56	11-APR	302.94	238.16	119

TEST PHASE: SHUTIN PERIOD # 2 FINAL FLOW PRESSURE = 119 PSIA PRODUCING TIME = 241.16 MIN

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS 0:36:56 0:38:41 0:40:11 0:42:01 0:44:05 0:49:36 0:53:40 0:56:05 1:00:42 1:03:07 1:05:37 1:09:31 1:15:52 1:21:07 1:26:57 1:33:02 1:38:34 1:44:04 1:50:24 1:55:27 2:01:02 2:06:18	DD-MMM 11-APR	TIME, MIN  302.94 304.68 306.19 308.01 310.08 315.60 319.66 322.08 326.70 329.12 331.61 335.52 341.87 347.12 352.95 359.03 364.56 370.06 376.40 381.45 387.03 392.30	TIME,MIN  0.00 1.74 3.25 5.07 7.14 12.66 16.72 19.14 23.76 26.18 28.67 32.58 38.93 44.18 50.01 56.09 61.62 67.12 73.46 78.51 84.09 89.36	PSIA  119 129 136 146 155 187 216 234 277 302 330 379 470 555 658 778 892 1010 1144 1253 1373 1479	PSI  0 10 17 27 36 68 97 115 158 183 211 260 351 436 539 659 773 891 1025 1134 1254 1360	TIME 2.1449 1.8762 1.6863 1.5413 1.3021 1.1882 1.1335 1.0473 1.0091 0.9737 0.9244 0.8570 0.8101 0.7651 0.7242 0.6914 0.6621 0.6317 0.6098 0.5875 0.5681
2:11:32 2:17:10 2:23:53 2:28:57 2:34:37 2:37:39	11-APR 11-APR 11-APR	397.53 403.16 409.88 414.95 420.62 423.65	94.59 100.22 106.94 112.01 117.68 120.71	1579 1687 1808 1891 1982 2030	1460 1568 1689 1772 1863 1911	0.5502 0.5323 0.5126 0.4987 0.4842 0.4768

## PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

May 5, 1991

State of Utah, Dept. of Natural Resources Division of Oil, Gas, and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 RECEIVED

DIVISION OF OIL GAS & MINING

Re: Summary of Drilling Operation Ute Tribal 3-12A3

SESE Sec. 12 T1S R3W Duchesne County, Utah API No. 43-013-31294

#### Gentlmen:

Enclosed, please find the original and two copies of your Form OGC-1b "Sundry Notices & Reports On Wells" in regards to summary of drilling operation for the captioned well.

Please contact the undersigned if there should be any question. (801) 353-4397

Sincerely

Pennzoil Exploration and Production Company

Danny L. Laman

Enclosure



	STATE OF UTAH MENT OF NATURAL RESO ON OF OIL, GAS, AND MI			
(Do not use this form for propos Use "APPLICA	ICES AND REPORTS ( als to drill or to deepen or plug to ATION FOR PERMIT—" for such p	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTTER  Ute Tribe	OR TRIBE NAME
OIL GAS OTHER	Plug and Abandon		7. UNIT AGREEMENT NA	ME
PENNZOIL EXPLORATION 3. ADDRESS OF OPERATOR	ON AND PRODUCTION	COMPANY	8. FARM OR LEASE NAM UTE TRIBAL	
P. O. BOX 290, NEC	DLA, UTAH 84053		9. WELL NO. 3-12A3	
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface  SESE 660' FSL	& 660' FEL	State requirements.*	Bluebell/Upp	per GR
14. PERMIT NO.				1S R3W
43-013-31294	18. BLEVATIONS (Show whether DF. 6472 Ungrad		Duchesne	Utah
THETRI TO EDITOR		lature of Notice, Report, or C	Other Data  ENT EXPORT OF:  REPAIRING W	rell
SHOOT OR ACIDIZE  REPAIR WELL  (Other)	BANDON®	Completion or Recomple	of multiple completion o	oer.X
17. DESCRIBE PROPOSED OR COMPLETED OPER proposed work. If well is direction nent to this work.) *  See Attached Su	ations (Clearly state all pertinent ally drilled, give subsurface locations)	ions and measured and true vertical	including estimated date i depths for all markers	of starting any and zones perti-
			RECEIV	EO

MAY U 6 1991

DIVISION OF OIL GAS & MINING

Danny I. Laman (hereby certify that the foregoing is true and corr	Office: (801) 353-4397	Home: (801) 789-7033
SIGNED JANNA Share	TITLE Drilling Foreman	DATE 5-3-91
This space for Federal or State office use)		
APPROVED BY	TITLE	DATE

#### UTE 3-12A3

### SUMMARY OF DRILLING OPERATIONS FROM 3/6/91 TO 4/14/91

- Spudded well 9:00 AM 3/6/91 with Martin Rathole rig.
- Drilled 30" hole to 78'.
- Set 14" conductor at 78'. Cement with 255 sx. Class'G' cem. Circ. 10 bbl. cement to surface.
- MIRU Grace Rig No. 186.
- Tagged cement at 88' with K.B. 20.6'
- Drilled 11" surface hole to 3010' with 8.33ppg.-8.4ppg water. Encountered normal drilling problems. Began losing water at 875'. Lost total 4200 bbl. water while drilling surface hole. Final mud properties: 84.ppg; Vis: 28; pH 11, Chl: 300ppm
- Set new 8 5/8" 28# S-80 surface casing with 6 centalizers at 3010'.
- Cemented surface casing as follows:

Pumped: 50 bbls. of LCM pill 20 bbls. fresh water

Lead: 300 sx. Silicalite with 1/4# flocele, 4% CaCl. Mixed

at 10.1 ppg. Yield at 4.33 cu.ft./sk.

Tail: 200 sx. Class"G" with 1/4# flocele, 2% CaCl. Mixed at 15.6 ppg. Yield at 1.18 cu.ft./sk.

Cemented with full returns. Bumped plug at 11:00 PM 3/17/91 with 600 psi. Circulated 50 bbls. silicalite cement to surface. Cement fell back.

Performed 1" top job in 2 stages with 200 sx. Class "G". Circulated to surface. Cement fell back to 70' from surface. Complete job with 5 cu.yds. ready mix concrete at 6 bags per yard.

- Performed BOP test on 3/20/91. Tested rams and choke manifold to 3000 psi. Tested Hydril to 1500 psi.

- Drilled cement above float equipment 2939'-2962'. Pressure tested 8 5/8" casing to 1500 psi.
- Drilled float equipment. Pressure tested shoe to 1500 psi.
- Function tested Koomey Accumulator Unit per BLM instructions.
- Drilled 7 7/8" hole through 15 ft. of new formation to 3025'. Performed leak off test to 10.3 EMW.
- Drilled 7 7/8" hole 3010'-9600' with normal drilling problems. Began losing drilling fluid at 3025'. Lost total 11,300 bbl. while drilling.
  - Final Mud Properties: 8.7 ppg.; Vis: 40; PV: 9; YP: 10; Gels: 5/14; W.L.: 12; pH: 10.5; Chl: 400 ppm.
- Performed DST#1. Upper Green River interval 7685'-8097'. Intial Flow (5 min.): open with 2" blow, decrease to 1/4" blow

Initial SI (60 min.): dead

Final Flow (300 min.): open with no blow, 1" blow at 1 min., 3/4" blow at 3 min., 1/2" blow at 4 min, dead at 13 min.

Final SI (120 min.): dead

Water Cushion: none

Drill String Recovery: total: 1800' (1.27 bbls in D.C.'s and 22.46 bbls. in D.P.) with 1620' of drilling mud and 180' of salt water cut drilling mud with trace oil.

Sample chamber Recovery: Salt Water 2400 cc. at 5200 ppm.
Oil: 1 cc. Gas: none Mud: none
Emulsion: trace Pressure: 0 psi.

Water Resistivity: pit: 3.5 @ 70F; 425 ppm.

drill string: .37 @ 70F; 5200 ppm. sample chamber: .37 @ 70F; 5200 ppm.

Mud Resistivity: drill string: 3.5 @ 70F; 425 ppm.

Initial Hydrostatic: 3408 psi.

5 Min. Pre-Flow: 661 psi.-729 psi.

60 Min. Initial SI: 3200 psi.

Final Hydrostatic: 3394 psi.

- Ran open hole logs: High Resolution Induction with GR 9604surface, Full Wave Sonic 9604'-7000', Density 9604'-7000', Dual Spaced Neutron 9604'-7000', and 4 Arm Caliper 9604'-7000'.

Performed DST#2 Lower Green River-Mahogany Bench interval 9080'-9600'. Initial Flow (3 min.): open with 1" bubble, 3 min: 1 1/2" Intiial SI ( 60 min.): closed 1 1/4" bubble. Dead in 53 min. Final Flow ( 240 min.): open with weak surface blow. 10 min.: 2" bubble, 30 min.: 4" bubble, 40 min.: 5 1/4" bubble, 100 min.: 3 1/2" bubble, 120 min.: 2" bubble, 130 min.: 1 1/2" bubble, 155 min.: 1 1/4" bubble, 170 min.: 1" bubble, 190 min.: 3/4" bubble. Closed with 3/4" bubble. Final SI (120 min.): Dead in 19 min. No gas to surface. Water Cushion: none Drill String Recovery: 210 ft. (1.52 bbls.) consisting of 5 ft. mud cut oil and 205 ft. of oil cut mud. Sample Chamber Recovery: Mud: 2400 cc. with trace oil Gas: .0167 cu.ft. of indeterminate gravity Pressure: 100 psi. Water Resistivity: Pit: 9.2 @ 68F; 400 ppm. Drill Pipe: 9.2 @ 68F; 400 ppm. Sample Chamber: 9.2 @ 68F; 400 ppm. Initial Hydrostatic: 4239 psi. 3 Min Pre-Flow: 62 psi.-80 psi. 240 Min. Final Flow: 92 psi.-119 psi. 120 min.: Final SI: 2030 psi. Final Hydrostatic: 4137 psi. Performed DST#3 Green River-Trona Formation interval 8684'-9070'. Initial Flow ( 3 min.): open with 2 1/4" bubble. Initial SI ( 60 min.): 2 1/4" bubble decreased to weak blow in 60 min. Final Flow ( 420 min.): open with weak surface blow; 5 min.= 6", 30 min.= 8", 105 min.= 10", 150 min.= 9" 240 min.= 8 1/2", 300 min.= 7 1/2", 360 min.+ 6 1/4" 420 min. = 6", no gas to surface. Final SI ( 120 min.): close tool with 6"

Drill String Recovery: 315 ft.(1.54 bbl.); 45 ft. mud and oil cut water. 270 ft. oil and gas cut mud.

Water Cushion: none

All fluids gas cut.

Sample Chamber Recovery: trace salt water. 1140 cc. oil, 44 API Grav. @ 110F. Trace mud. Pressure: 125 psi.

Water Resistivity: Pit: 9.2 @ 68F; 400 ppm.

Top of Drill String: 2.2 @ 68F; 3000 ppm. Bottom of Drill String: 1.2 @ 68F; 5000 ppm.

Sample Chamber: Inadequate sample.

Initial Hydrostatic: 4020 psi. 3 Min. Pre-Flow: 79-100 psi 60 Min. Initial SI: 1747 psi 420 Min. Final Flow: 120-162 psi

120 Min. Final SI: 669 psi Final Hydrostatic: 4060 psi

- Plugged well. Spotted balanced plugs 7900'-7632', 4000'-3750', 3070'-2818', and 90'-surface. Witnessed by BLM inspector, Dave Brown.

First Plug: 125 sx. Class "G", 268 ft. 7900'-7632' Second Plug: 175 sx. Class "G", 250 ft. 4000'-3750' Third Plug: 100 sx. Class "G", 252 ft. 3070'-2818' Fourth Plug: 50 sx. Class "G", 90 ft.- surface

- Released drilling rig 1:30 PM 4/14/91.
- FINAL DRILLING REPORT.



Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

March 11, 1993

Pennzoil Exploration & Production P.O. Box 290 Neola, Utah 84053

#### Gentlemen:

Re: Well Completion Report - Ute 3-12A3 Well, Sec. 12, T. 1S, R. 3W, Duchesne County, Utah, API No. 43-013-31294

Utah Admin. R649-3-21, the Utah Oil and Gas Conservation General Rules, requires that within 30 days after the completion of any well drilled or redrilled for the production of oil or gas, Well Completion or Recompletion Report and Log, Form 8, and copies of the electric and radioactivity logs, if run, shall be filed with the division. Utah Admin. R649-8-9 adds that Form 8 and accompanying logs shall be submitted within 30 days after recompleting a well or plugging a newly drilled well.

Our records indicate that the Well Completion Report for the referenced well has not been received. Enclosed is a copy of Form 8 for your use in promptly submitting this report. If you have questions regarding the completion of the form, please feel free to call Debra Eatchel at the above number.

Sincerely,

Don Staley

Administrative Manager

Don Stelin

Oil and Gas

ldc

**Enclosure** 

CC:

R.J. Firth

D.M. Eatchel

Well file

WOI1



DEPARTA	MENT OF NATURAL RESO	URCES	rrse side)
	ON OF OIL, GAS, AND MI		5. LEASE DESIGNATION (NO SERIAL NO. 14-20-H62-1576
(Do not use this form for propos Use "APPLICA	CES AND REPORTS ( als to drill or to deepen or plug b TION FOR PERMIT—" for such p	ON WELLS pack to a different reservoir. ropossis.)	6. IF INDIAN, ALLOTTER OR TRIBE NAME . Ute Tribe
OSL GAR GAR OTHER	Plug and Abandon		T. UNIT AGREEMENT NAME
PENNZOIL EXPLORATION	ON AND PRODUCTION	COMPANY	8. FARM OR LEASE NAME UTE TRIBAL
	DLA, UTAH 84053		9. WELL NO. 3-12A3
4. LOCATION OF WELL (Report location of See also space 17 below.) At surface	early and in accordance with any	State requirements.*	Bluebell/Upper GR
SESE 660' FSL	& 660' FEL		Sec. 12 T1S R3W
14. PERMIT NO. 43-013-31294	15. SLEVATIONS (Show whether DF. 6472 Ungrad		Duchesne Utah.
16. Check Ap	propriate Box To Indicate N		_
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)  17. DESCRIBE PROPOSED OR COMPLETED OPER	ULL OR ALTER CASING  ULTIPLE COMPLETE  BANDON*  IANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOUTING OR ACIDIZING (Other) Summary (Note: Report recompletion or Recomple	REPAIRING WELL  ALTERING CASING  ASANDONMENT®  X  Of Drilling Oper. X  suits of multiple completion on Well  completion Report and Log (orm.)  ates. including estimated date of starting any ertical depths for all markers and zones perti-
See Attached Su	mmary of Drilling	Operations	
			DIS CISTAVIETA



DIVISION OF OIL GAS & MINING

Office: (801) 353-4397	Home:	(801)	789-7033
	l	DATE .	5-3-91
		<del></del>	
TITLE		DATE .	· · · · · · · · · · · · · · · · · · ·
	Office: (801) 353-4397 d correct TITLE Drilling Foreman	d correct Drilling Foreman	Office: (801) 353-4397 Home: (801) d correct TITLE Drilling Foreman DATE.

#### UTE 3-12A3

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Tail: 200 sx. Class"G" with 1/4# flocele, 2% CaCl. Mixed at 15.6 ppg. Yield at 1.18 cu.ft./sk.

Cemented with full returns. Bumped plug at 11:00 PM 3/17/91 with 600 psi. Circulated 50 bbls. silicalite cement to surface. Cement fell back.

Performed 1" top job in 2 stages with 200 sx. Class "G". Circulated to surface. Cement fell back to 70' from surface. Complete job with 5 cu.yds. ready mix concrete at 6 bags per yard.

 Performed BOP test on 3/20/91. Tested rams and choke manifold to 3000 psi. Tested Hydril to 1500 psi.

- Drilled cement above float equipment 2939'-2962'. Pressure tested 8 5/8" casing to 1500 psi.
- Drilled float equipment. Pressure tested shoe to 1500 psi.
- Function tested Koomey Accumulator Unit per BLM instructions.
- Drilled 7 7/8" hole through 15 ft. of new formation to 3025'. Performed leak off test to 10.3 EMW.
- Drilled 7 7/8" hole 3010'-9600' with normal drilling problems. Began losing drilling fluid at 3025'. Lost total 11,300 bbl. while drilling.
  - Final Mud Properties: 8.7 ppg.; Vis: 40; PV: 9; YP: 10; Gels: 5/14; W.L.: 12; pH: 10.5; Chl: 400 ppm.
- Performed DST#1. Upper Green River interval 7685'-8097'. Intial Flow (5 min.): open with 2" blow, decrease to 1/4" blow

Initial SI (60 min.): dead

Final Flow (300 min.): open with no blow, 1" blow at 1 min., 3/4" blow at 3 min., 1/2" blow at 4 min, dead at 13 min.

Final SI (120 min.): dead

Water Cushion: none

Drill String Recovery: total: 1800' (1.27 bbls in D.C.'s and 22.46 bbls. in D.P.) with 1620' of drilling mud and 180' of salt water cut drilling mud with trace oil.

Sample chamber Recovery: Salt Water 2400 cc. at 5200 ppm.
Oil: 1 cc. Gas: none Mud: none
Emulsion: trace Pressure: 0 psi.

Water Resistivity: pit: 3.5 @ 70F; 425 ppm.

drill string: .37 @ 70F; 5200 ppm. sample chamber: .37 @ 70F; 5200 ppm.

Mud Resistivity: drill string: 3.5 @ 70F; 425 ppm.

Initial Hydrostatic: 3408 psi.

5 Min. Pre-Flow: 661 psi.-729 psi.

60 Min. Initial SI: 3200 psi. Final Hydrostatic: 3394 psi.

- Ran open hole logs: High Resolution Induction with GR 9604surface, Full Wave Sonic 9604'-7000', Density 9604'-7000', Dual Spaced Neutron 9604'-7000', and 4 Arm Caliper 9604'-7000'.

Performed DST#2 Lower Green River-Mahogany Bench interval 9080'-9600'. Initial Flow ( 3 min.): open with 1" bubble, 3 min: 1 1/2" bubble. Intiial SI ( 60 min.): closed 1 1/4" bubble. 53 min. Final Flow ( 240 min.): open with weak surface blow. 10 min.: 2" bubble, 30 min.: 4" bubble, 40 min.: 5 1/4" bubble, 100 min.: 3 1/2" bubble, 120 min.: 2" bubble, 130 min.: 1 1/2" bubble, 155 min.: 1 1/4" bubble, 170 min.: 1" bubble, 190 min.: 3/4" bubble. Closed with 3/4" bubble. Final SI ( 120 min.): Dead in 19 min. No gas to surface. Water Cushion: none Drill String Recovery: 210 ft. (1.52 bbls.) consisting of 5 ft. mud cut oil and 205 ft. of oil cut mud. Sample Chamber Recovery: Mud: 2400 cc. with trace oil Gas: .0167 cu.ft. of indeterminate gravity Pressure: 100 psi. Water Resistivity: Pit: 9.2 @ 68F; 400 ppm. Drill Pipe: 9.2 @ 68F; 400 ppm. Sample Chamber: 9.2 @ 68F; 400 ppm. Initial Hydrostatic: 4239 psi. 3 Min Pre-Flow: 62 psi.-80 psi. 240 Min. Final Flow: 92 psi.-119 psi. 120 min.: Final SI: 2030 psi. Final Hydrostatic: 4137 psi. Performed DST#3 Green River-Trona Formation interval 8684'-9070'. Initial Flow ( 3 min.): open with 2 1/4" bubble. Initial SI ( 60 min.): 2 1/4" bubble decreased to weak blow in 60 min. Final Flow ( 420 min.): open with weak surface blow; 5 min.= 6", 30 min.= 8", 105 min.= 10", 150 min.= 9"

Water Cushion: none
Drill String Recovery: 315 ft.(1.54 bbl.); 45 ft. mud
and oil cut water. 270 ft. oil and gas cut mud.

420 min.= 6", no gas to surface. Final SI ( 120 min.): close tool with 6"

240 min.= 8 1/2", 300 min.= 7 1/2", 360 min.+ 6 1/4"

All fluids gas cut.

Sample Chamber Recovery: trace salt water. 1140 cc. oil, 44 API Grav. @ 110F. Trace mud. Pressure: 125 psi.

Water Resistivity: Pit: 9.2 @ 68F; 400 ppm.

Top of Drill String: 2.2 @ 68F; 3000 ppm. Bottom of Drill String: 1.2 @ 68F; 5000 ppm.

Sample Chamber: Inadequate sample.

Initial Hydrostatic: 4020 psi. 3 Min. Pre-Flow: 79-100 psi 60 Min. Initial SI: 1747 psi 420 Min. Final Flow: 120-162 psi

120 Min. Final SI: 669 psi Final Hydrostatic: 4060 psi

- Plugged well. Spotted balanced plugs 7900'-7632', 4000'-3750', 3070'-2818', and 90'-surface. Witnessed by BLM inspector, Dave Brown.

First Plug: 125 sx. Class "G", 268 ft. 7900'-7632' Second Plug: 175 sx. Class "G", 250 ft. 4000'-3750' Third Plug: 100 sx. Class "G", 252 ft. 3070'-2818' Fourth Plug: 50 sx. Class "G", 90 ft.- surface

- Released drilling rig 1:30 PM 4/14/91.
- FINAL DRILLING REPORT.

# PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P.O. Box 290 Neola, Utah 84053 Phone (801) 353-4397

March 17, 1993

State of Utah, Department of Natural Resources Division of Oil, Gas, and Mining 355 West North Temple 3 Triad Center; Suite 350 Salt Lake City, Utah 84180-1203 ATTN: Debra Eatchel MECIZIVED

MAR 1 9 1993

DIVISION OF OIL GAS & MINING

RE:

Resubmit Summary of Drlg. Oper., Well Completion Report; & Sundry Notice

Ute Tribal 3-12A3 660' FSL & 660' FEL

SE 1/4 SE 1/4 Sec. 12 T1S R3W

43-013-31294

Duchesne County, Utah

Dear Mrs. Eatchel

Enclosed are the following; Well Completion Report with DST reports; Sundry Notice with Summary of Drilling Operation; and a third Sundry Notice stating well has been plugged, abandoned, and reclaimed.

If you should need any more information please call me at the number above.

PENNZOIL EXPLORATION AND PRODUCTION COMPANY

DANNY L. LAMAN AREA DRILLING FOREMAN 1.

## UNITED STATES

SUBMIT IN DUPLICATE.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ther in-retions on everse side)

Form approved. Budget Bureau No. 1004-0137 Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

.i.	14-20-Н62-1576
N.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME

	OMPLETION	OR RECO	MPLETION	REPORT	HP FRA	UTE TR	LOTTEE OR TRIBE!
1a. TYPE OF WE	ELL: OH. Wri.L	GAR WELL	DRY X	Other		7. UNIT ACREEM	
b. TYPE OF CO.	MPLETION:	· 🗀 PLFG	DIFF. C	<b>13.</b>	R 1 9 1993		
WRLL.	OVER LEN	BACK	DERVR.	Other <u>MA</u>	R 1 9 1995	S. PARM OR LEAS	
2. NAME OF OPER					שמומנו מד	UTE TR	IBAL
PENNZOI	L EXPLORAT	ION AND	PRODUCTI	ON COMPEN	MSION OF		
P. O. B		ייז ארות	ГАН 84053	OILG	AS & MININ	10. FIELD AND PO	OOL, OR WILDCAT
	KIL (Report location				enta)*		11/ Upper
At surface							., OR BLOCK AND SU
SESE At top prod. ii	660' FS aterval reported belo		60' FEL			Sec. 12	TIS R3
At total depth							
9600'			14. PERMIT N	,	TE ISSUED	12. COUNTY OR PARISH	13. STATE
	<u> </u>	· · · · · · · · · · · · · · · · · · ·			2-14-90	Duchesn	e İİtah
3-14-91	16. DATE T.D. REA	1	TE COMPL. (Ready	10. 2	LEVATIONS (DF. RR		. ELEV. CASINGHE
3-14-91		BACK T.D., MD 4		5.91 6	472' GR		6472 '
			ном	MANY*	DRILLED		
9600 4. PRODUCING INTE	ERVAL(S). OF THIS CO	urface	P. BOTTOM, NAME			1 0 -3000	25. WAS DIRECTIO
							SURVEY MADE
		110-17	<i>)</i>		2001 / 19 I	776	No
6. TYPE ELECTRIC	and other loss avertionInduction	Dual	Space M	eutron	Enformació	PA 27.	WAS WELL CORED
gh Resolu	itionInduc	tion; Fu	111 Wave	Sonich De	nsity; Ca	liper	No
8.		CAS	ING RECORD (R	eport all strings se	t in well)		
CASING SIZE	WEIGHT, LB./FT	DEPTH S	ET (MD)	HOLE SIZE		NG RECORD	AMOUNT PULL
14"	25	78 '	GL	30"	255 sx.	Class "G"	None
lew 8 5/8'	2.8#	3010	KB	11"	300 sx I		_None
	<del>-</del>	<del> </del>				lass "G"	-
9.	į.	NER RECORD		Top of W/	200 sx.   30.	Class "G" TUBING RECORD	_ <del></del>
8128	TOP (MD)	OTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET ()
1. PERFORATION RE	corp (Interval, size	and number)		32.	ACID. SHOT. FRA	CTURE. CEMENT SQ	UEEZE, ETC.
				DEPTH INTERV	AL (MD)	AMOUNT AND KIND OF	MATERIAL USED
4							·
				<del></del>		· · · · · · · · · · · · · · · · · · ·	
			-				
B.*			PRO	ODUCTION	<del></del>		
ATB FIRST PRODUCT	PRODUCT	ION METHOD (	Flowing, gas lift,	pumping—size and	type of pump)	WELL STAT	US (Producing or
ATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR	OIL—BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
			TEST PERIOD				
OW. TUBING PRICE.	CASING PRESSURE	CALCULATED 24-HOUR BAT	OH.—BBL.	GASMCF	. WATE	RHBL. OIL	GRAVITY-API (CORR
·							State of the state
DISPOSITION OF G	As (Sold, used for fu	el, vented, etc.)				TEST WITNESSED	BY
		·	·	·			· · · · · · · · · · · · · · · · · · ·
S. LIST OF ATTACH	m ents						
I hereby certify	that the foregoing	nd attached is	nformation is com	piete and correct	as determined fro	m all available record	le .
				rilling F			
SIGNED	my so	nes ?	TITLE _	TITITING F	oreman	DATE 5	-3-91
•							

	GEOLOGIC MAR	
	38.	
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all	drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38,	recoveries):

ď	TRUE VERT. DEPTH		
TOP	MEAS. DEPTH	7510' 7682' 7855' 8664' h 9430'	
	NAME	Green River GR/TG2 GR/TGM GR/TRONA I Mahogany Benc	
DESCRIPTION, CONTENTS, ETC.	See Attached DST Reports.		
BOTTOM			
TOP	-	•	
FORMATION			

#### HALLIBURTON RESERVOIR SERVICES

#### FORMATION TESTING SERVICE REPORT

04-APR-91

COMPANY: PENZOIL EXPLORATION AND PRODUCTION CO.

LEASE NAME: UTE

WELL NUMBER: 3-12 A3

TEST NUMBER: 1

TICKET NUMBER: 00714601

TEST DATE: 4-2-91

CAMP: ROCK SPRINGS

JOB TYPE: OPEN HOLE

LEGAL LOCATION:

FIELD AREA: BLUE BELL

COUNTY: DUSHESNE

STATE: UTAH OBF

ELEVATION: 6492.0 FEET

NET PAY: 0.0 FEET

HOLE SIZE: 7.9 INCHES

TESTED INTERVAL: 7685.0 FEET - 8097.0 FEET

DRILLING CONTRACTOR: GRACE DRILLING RIG #186

#### NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM TEST PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, H.R.S. IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT M.R.S. MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT H.R.S. SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER OUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH CALCULATIONS AND OPINIONS.

#### EQUIPMENT & HOLE DATA

FORMATION TESTED: GREEN RIVER

NET PAY:

412.0 FT. GROSS TESTED FOOTAGE:

ALL DEPTHS MEASURED FROM: KB

CASING PERFORATIONS:

HOLE/CASING SIZE: 7.9 IN.

6492.0 FT. ELEVATION:

TOTAL DEPTH: 8097.0 FT.

PACKER DEPTH(S): 7678.0 FT.

7685.0 FT.

0.25000 IN. FINAL SURFACE CHOKE:

BOTTOM HOLE CHOKE: 0.750 IN. 8.50 LB/GAL MUD WEIGHT:

38.00 SEC. MUD VISCOSITY:

0.0 F ESTIMATED HOLE TEMPERATURE:

134.0 F @ 8093.0 FT. ACTUAL HOLE TEMPERATURE:

#### HYDROCARBON PROPERTIES

OIL GRAVITY: GAS/OIL RATIO: GAS GRAVITY:

#### SAMPLER DATA

SURFACE PRESSURE:

GAS VOLUME:

OIL VOLUME:

2352.0 CC WATER VOLUME:

48.0 CC MUD VOLUME:

TOTAL LIQUID VOLUME: 2400.0 CC

#### TESTER(S):

JOHN BALLARD

#### WITNESS(ES):

DONNIE SNAPP

TEST DATE:

FLUID PROPERTIES FOR RECOVERED MUD AND WATER

SOURCE	RESIS	CHLORIDES		
PIT	3.750 @	70.0 F	425.0	PPM
TOP RECOVERY	3.500 @	70.0 F	425.0	MAG
BOTTOM SAMPLE	0.370 @	70.0 F	5200.0	MPP
SAMPLER	0.370 @	70.0 F	5200.0	PPM
	<b>0.000</b> @	0.0 F	0.0	PPM
	0.000 @	0.0 F	0.0	PPM

#### CUSHION DATA

TYPE	TNUOMA	WEIGHT
	0.0	0.00 0.00

RECOVERED (MEASURED FROM TESTER VALVE):

1800 FEET OF RECOVERY

#### REMARKS:

CHARTS INDICATE: 1.) LIQUID INSIDE THE TUBULAR GOODS ABOVE THE TOOLS AT BEGINNING OF THE TEST, 2.) PLUGGING OF THE ANCHOR PIPE PERFORATIONS DURING THE INITIAL FLOW PERIOD, AND 3.) AN UNSUCCESSFUL FINAL CLOSED-IN PERIOD. TESTER REPORTED TAGGING BOTTOM 30 FEET HIGH AND CHASING THE TOOLS TO BOTTOM WHEN THE HYDROSPRING OPENED. THE ORIGINAL PROCEDURE CALLED FOR ONLY A 5 MINUTE INITIAL FLOW PERIOD. HOWEVER, THE FILL IN THE HOLE DID NOT ALLOW FOR THE PROPER NUMBER OF TURNS ON THE TOOLS TO BE ACCOUNTED FOR, HENCE THE FLOW/CLOSED-IN SEQUENCES WERE INVERTED.

: FICKET NUMBER:

TEST DATE:

4-2-91

GAUGE NUMBER:

76

GAUGE DEPTH:

7667.0

BLANKED OFF:	ОИ
CLOCK HOUR:	24

	DESCRIPTION	PRESSURE		TIME		
		REPORTED	CALCULATED	REPORTED	CALCULATED	TYPE
A	INITIAL HYDROSTATIC	٥	3402.3	. ,		
	INITIAL FIRST FLOW FINAL FIRST FLOW	0	<b>667.8</b> 776.3	65.0	46.0	F
,	INITIAL FIRST CLOSED-IN FINAL FIRST CLOSED-IN	0 0	776.3 3225.6	300.0	297.2	c .
	INITIAL SECOND FLOW FINAL SECOND FLOW	0	810.5 888.5	43.0	46.8	F
•	INITIAL SECOND CLOSED-IN FINAL SECOND CLOSED-IN	0 N:	888.5 0.0	77.0	0.0	С
Н	FINAL HYDROSTATIC	0	0.0			

O TICKET NUMBER:

TEST DATE:

4-2-91

GAUGE NUMBER:

430

GAUGE DEPTH:

8093.0

BLANKED OFF:

YES

CLOCK HOUR:

24

	DESCRIPTION	Pf	RESSURE	TI	1E		
		REPORTED	CALCULATED	REPORTED	CALCULATED	TYPE	
Α	INITIAL HYDROSTATIC	•	3596.4				
	INITIAL FIRST FLOW FINAL FIRST FLOW	o 0	891.0 978.1	65.0	46.0	F	
	INITIAL FIRST CLOSED-IN FINAL FIRST CLOSED-IN	0	978.1 3436.2	300.0	297.2	C	•
	INITIAL SECOND FLOW FINAL SECOND FLOW	0 0	1009.1 1088.2	43.0	46.8	peno  **	
	INITIAL SECOND CLOSED-IN FINAL SECOND CLOSED-IN	N 0	1088.2 0.0	77.0	0.0	С	
H	FINAL HYDROSTATIC	. 0	0.0				

REPORT NO. 125159

PAGE NO. 1

## STAR

### Schlumberger Transient Data Report

Schlumberger

TEST DATE: 10-APR-1991 Pressure Data Report

COMPANY: PENNZOIL COMPANY	WELL: 3-12A3 UTE - DST #2
TEST IDENTIFICATION	WELL LOCATION
Test Type MFE-OH-OST   Test No TWO	Field BLUEBELL-ALT. County DUCHANE
Formation GREEN RIVER	State UTAH
Test Interval (ft) 9080 to 9600	Sec/Twn/Rng S12T1SR3W
Depth Reference KB	Elevation (ft)
HOLE CONDITIONS	MUD PROPERTIES
Total Depth (MD/TVD) (ft) 9600	Mud Type NEW DRILL
Hole Size (in) 7.875	Mud Weight (lb/gal) 8.7
Casing/Liner I.D. (in)	Mud Resistivity (ohm.m) 9.2 6 68F
Perf'd Interval/Net Pay (ft) / 40	Filtrate Resistivity (ohm.m) 9.0 @ 68F
Shot Density/Biameter (in)	Filtrate Chlorides (ppm) 400
INITIAL TEST CONDITIONS	TEST STRING CONFIGURATION
Initial Hydrostatic (psi) 4240	Pipe Length (ft)/I.D. (in) 8890 / 3.80
Gas Cushion Type	Collar Length (ft)/I.D. (in) 150 / 2.25
Surface Pressure (psi)	Packer Depths (ft) 9074. 9080
Liquid Cushion Type	Bottomhole Choke Size (in) 0.937
Cushion Length (ft)	Gauge Depth (ft) /Type 9093/MECH.
NET PIPE RECOVERY	NET SAMPLE CHAMBER RECOVERY
Volume Fluid Type Properties	Volume Fluid Type Properties
5 ft MUD CUT OIL	0.02 cuft Gas
215 ft MUD (TR.OIL) Rw9.2068F 400ppm	50 cc 0il
	2400 cc Mud Rw9.2068F 400ppm
	Pressure: 100 GOR: 64 GLR: 1
INTERPRETATION RESULTS  Model of Behavior	ROCK/FLUID/WELLBORE PROPERTIES  Oil Density (deg. API)  Basic Solids (%)  Gas Gravity  GOR (scf/STB)  Water Cut (%)  Viscosity (cp)  Total Compressibility (1/psi)  Porosity (%)

### PRODUCTION RATE DURING TEST: Data Report

#### COMMENTS:

THIS TEST WAS MECHANICALLY SUCCESSFUL. THE ZONE PRODUCED MUD CUT OIL AND MUD WITH A TRACE OF OIL.

THE GENERAL CHARACTER OF THE BUILDUP PLOTS SUGGEST THAT THE ZONE HAS LOW EFFECTIVE PERMEABILITY AND WELLBORE DAMAGE AT THE TIME AND CONDITIONS OF THE TEST.

REPORT NO. 125159 PAGE NO. 2

# SEQUENCE OF EVENTS

Schlumberger

(HR:MIN)	OESCRIPTION	(MINS)	BHP (PSIA)	(PSIG)
	SET PACKER	-3		
19:34 19:37	START FLOW-1"BLOW IN WATER 1.5" BLOW IN WATER	<b>0</b>	62	
19:37	END FLOW & START SHUTIN	3	80	
20:37	END SHUTIN	63	2324	
20:45 20:50 21:00 21:10 21:25 21:40 21:55 22:10 22:25 23:10 23:25 23:10 23:25 23:10	3" BLOW IN WATER 4" BLOW IN WATER 4" BLOW IN WATER	71 76 86 96 111 126 141 156 171 186 201 216 231	92	
00:40	END FLOW & START SHUTIN	306	119	
	END SHUTIN	426		
02:45	PULLED PACKERS LOOSE PULLED LOOSE EASILY NO FILL		4137	

REPORT NG. 125160

PAGE NO. 2

# SEQUENCE OF EVENTS

Schlumberger

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)		
*****		<b>第二年 2 3 4 5 5 5 5 5 5 5 5 6 5 6 5 6 5 6 7 7 7 7 7</b>			
			_	4 1 am am 4m	
12-APR	10:54	Hydrostatic Mud	-3	4050	
	13:57	START FLOW 2.25" BLOW	g	79	
	11:11	START SHUTIN 2.25"BLOW	14	100	
	12:00	END SHUTIN	63	1747	
	12:01	START FLCW 1" BLOW	64	120	
	12:06	6" BLOW IN BUCKET	69		
	12:11	6.75" BLOW IN BUCKET	74		
	12:16	7" BLOW IN BÚCKET	79		
	12:31	8" BLOW IN BUCKET	34		
	12:46	9.25" BLOW IN BUCKET	109	,	
		9" BLOW IN BUCKET	139		
		110" BLCW IN BUCKET	169		**
		9" BLOW IN BLCKET	139		
		10" SLOW IN SUCKET	169		
		9.25" BLCW IN BUCKET	199		
		9" BLOW IN BUCKET	214		
		8" BLOW IN BUCKET	229		
		8.75" BLCW IN BUCKET	274		
	15:48		289		
		8.5" BLOW IN BUCKET	304		
		8" BLOW IN BUCKET	334		
	17:01	7.75" BLOW IN BUCKET	354		
	17:31	6" BLOW IN BUCKET	384		
	17:46		709		
	18:01	6.25" BLOW IN BUCKET	424		
•	18:31	6" BLOW IN BUCKET	<b>1121</b>		
	19:31	END FLOW & START SHUTIN	<b>4</b> 84	152	
	21:03	END SHUTIN	606	663	eg

REPORT NO. 125160

PAGE NO. 1 TEST DATE:

12-APR-1991

### STAR

# Schlumberger Transient Data Report

Pressure Data Report

Schlumberger

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7.2 11

COMPANT: PENNZOIL COMPANY	WELL: UTE TRIBAL 3-12A3 - DST #3
TEST IDENTIFICATION	WELL LOCATION
Test Type OH-OST-STRADDLE	Field ALTMONT BLUES.
Test No 3	County DUCHESNE
Formation	State UTRH
Test Interval (+t) 8684 to 9064	Sec/Twn/Rng
Depth Reference	Fleuation (ft)
HOLE CONDITIONS	Elevation (ft) 6492 MUD PROPERTIES
Total Deoth (MD/TVD) (ft) 9602	Mud Type NEW DRILL
iotal usoth (Mu/IVU) (ft) Jour	Mud Weight (lb/gal) 8.7
Hole Size (in)	Mud Resistivity (ohm.m) 9.2 a 68F
Casing/Liner I.D. (in)	Filtrets Resistivity (ahm.m) 9.0 9 68F
Perf'd Interval/Net Pay (ft) / 65	Filtrate Chlorides (ppm) 400
Shot Density/Diameter (in)	
INITIAL TEST CONDITIONS	TEST STRING CONFIGURATION
Initial Hydrostatic (psil 4020	Pipe Length (ft)/I.D. (in) 8315 / 3.80
Gas Cushion Type	Coliar Length (ft)/I.D. (in) 334 / 2.25
Surface Pressure (psl)	Packer Dapths (ft) \$664, 9064
Liquid Cushion Type	Bottomhole Choke Size (in) 0.93
Cushion Length (#t)	Gauge Daoth (ft) /Type 8696/MECH.
NET PIPE RECOVERY	NET SAMPLE CHAMBER RECOVERY
Volume Fluid Type Properties	Volume Fluid Type Properties
45 +t MC OIL & WTRAW2.2068F 300Cpom	0.55 cuft Gas
270 #1   OC NTR & MUDIRW1.2068F 500Cpam	1140 cc   011   RPI 449110F
(ALL SAMPLES)	
HIGHLY GAS	
CUT)	Pressure: 125   GOR: 77   GLR: 77
CUI)	1 20001 21 22
INTERRETATION RECULTS	ROCK/FLUID/WELLBORE PROPERTIES
INTERPRETATION RESULTS	Oil Density (deg. API)
Model of Behavior	Basic Sclids (%)
Fluid Type Used for Analysis.	Gas Gravity
Reservoir Pressure (psi)	GOR (sof/STB)
Transmissibility (md.ft/cp)	Water Cut (%)
Effective Permeability (md)	
Skin Factor/Damage Ratio	Viscosity (cp)
Storativity Ratio, Omega   Interporce.Flow Coef.,Lambda	Porosity (%)
Distance to an Anomaly (ft)	Reservoir Temperature, (F) 137
	Form. Vol. Factor (bb1/318)
Radius of Investigation (ft)	The management of the same of
	$\overline{\mathbb{R}}[\mathbb{R}_{p}]$

### COMMENTS:

THIS TEST WAS MECHANICALLY SUCCESSFUL. THE ZONE PRODUCED GAS CUT DIL, MUD AND WATER DURING THE TEST.

PRODUCTION RATE DURING TEST: Data Report

THE GENERAL CHARACTER OF THE BUILDUP PLOTS SUGGEST THAT THE ZONE HAS LOW EFFECTIVE PERMEABILITY AND WELLBORE DAMAGE AT THE TIME AND CONDITIONS OF THE TEST.

Form OGC-1b

#### STATE OF UTAH SUBMIT IN TRIPLICATE\* **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS, AND MINING

	5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-1576
1. OIL GAS X OTHER WELL WELL	6. IF INDIAN, ALLOTTEE OR TRIBAL NAME Ute Tribe
SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT-" for such proposals)	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR PENNZOIL EXPLORATION and PRODUCTION COMPANY	8. FARM OR LEASE NAME UTE TRIBAL
3. ADDRESS OF OPERATOR P.O. BOX 290 NEOLA, UTAH 84053	9. WELL NO. 3-12A3
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.  See also space 17 below.)  At surface  SESE 660' FSL & 660' FEL	10. FIELD AND POOL, OR WILDCAT Bluebell/Upper GR 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12 T1S R3W
14. PERMIT NO. 15. ELEVATION (SHOW WHETHER DF, RT, GR, etc.) 43-013-31294 6472 Ungraded	12. COUNTY OR PARISH 13. STATE  Duchesne Utah
NOTICE OF INTENTION TO:  TEST WATER SHUT-OFF> FRACTURE TREAT >	
<ul> <li>17. Describe proposed or completed operations (Clearly state all pertinent details, and give pertinent dat proposed work. If well is directionally drilled, give subsurface locations and measured and tru pertinent to this work)*</li> <li>Well was Plugged Abandoned on April 15, 1991.</li> <li>Description of plugging details in Summary of Drilling Operations sent 5-3-91' 1st plug 125 sks. Class "G" 268' 7900' - 7632' 2nd plug 175 sks. Class "G" 250' 4000' - 3750' 3rd plug 100 sks. Class "G" 252' 3070' - 2818'. 4th plug 50 sks. Class "G" 90' surface.</li> <li>Witness by BLM inspector Dave Brown.</li> </ul>	
Location has been reclaimed and reseeded per BLM's specification; Witness by	Dale Hanberg w/ BLM
18. I hereby certify that the foregoing is true and correct.  SIGNED: Jany Mana TITLE: Area Drilling Foreman	DATE: <b>Ma</b> r. 17, 1993
(This space for Federal or State office use)	
APPROVED BY:	DATE:

### PENNZOIL COMPANY

3-12A3 Ute

Section 12, T1S, R3W
Bluebell - Altamont Field
Duchesne County, Utah

Lloyd C. Felton, Jr. Wellsite Geologist

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#### WELL SUMMARY - 3-12A3 UTE

OPERATOR:

Pennzoil Company

LEASE:

3-12A3 Ute

LOCATION:

Field: Bluebell-Altamont

Legal: SE/4 SE/4

Section 12, T1S, R3W 660' FSL and 660' FEL

County: Duchesne County, Utah

API #

43-013-31294-00

ELEVATION:

Ground Level: 6,472' Kelly Bushing: 6,492'

SPUD:

1:00 P.M. MARCH 14, 1991

CEASE DRILLING:

10:00 P.M. APRIL 8, 1991

TOTAL DEPTH:

9,600'

CASING PROGRAM:

Conductor pipe: 14" set @ 78' Surface Casing: set @ 3,010' 0 - 3,010' - 8 5/8" 28# S-80

MUD PROGRAM:

Mud Company: Milpark Drilling Fluids

Mud Engineer: Lynn Brandhagen

Mud Type: W

Water: 88' - TD

SAMPLE PROGRAM:

Mud loggers caught 10' samples 7,000 - TD Examined: 7,000 - TD by mud loggers verified by wellsite geologist

Mud Logging

Company:

Datalog Western

24-hour - 2-man unit 7,000-TD

FID total gas detection FID chromatograph analysis

Mud Loggers:

Larry Gunther, Fred Spalding,

Howard Warren

DRILLING

CONTRACTOR:

Grace Rig 186

Toolpushers:

Drillers:

"Slim" Wilkinson, Marvin Sanders W. C. Wilson, Bobby Blanchard,

Al Guffey, Mike Row

### WELL SUMMARY - 3-12A3 UTE (continued)

DRILLSTEM TESTER:

DST #1 - Halliburton Resource Services

Tester: John Ballard

DST #2 - Johnston/Maaco - Schlumberger

Tester: Cliff Richards

DST #3 - Johnston/Maaco - Schlumberger

Tester: Cliff Richards

ELECTRIC LOGGING:

Halliburton Logging Services

Run 1: Engineers: John Chapman, Rod Weatherman Log Suite: High Resolution Induction w/ NGT GR

and caliper, GR to surface

3,010' - TD.

BHC Sonic-GR-Caliper w/ Waveforms.

7,000' - TD.

Compensated Neutron-Density w/ PEF

7,000' - TD.

WELLSITE

SUPERVISOR:

Donnie Snapp

WELLSITE

GEOLOGIST:

Lloyd Felton

#### GEOLOGIC SUMMARY - 3-12A3 UTE

The Pennzoil Company drilled the 3-12A3 Ute well to test the Upper Green River section down into the Mahogany Bench Member. Located in the SE/4 SE/4 section 12, T1S, R3W, in Duchesne County, Utah, the well was spudded March 14, 1991 and drilled to a total depth of 9,600' on April 8, 1991.

The Ute 3-12A3 encountered 7,510' of Uinta Formation and penetrated 2,090' of the Upper Green River section. Hydrocarbon shows were anticipated throughout the Green River section; however, in this well, they were limited in frequency and magnitude.

The Green River formation is composed of interbedded shale and sandstone with occasional limestone stringers, interrupted at times by volcanic tuffs which provide good correlation points for electric log evaluation. Below 8,450' in the 3-12A3 Ute well, a dark brown lacustrine dolomite made up a significant percentage of drill cuttings samples.

Typically in the Bluebell-Altamont field, competent zones in the Green River section exhibit considerable fracturing, which enhance porosity and permeability. However, in the Ute 3-12A3, there were very few indications of fractured sandstones and carbonates in the drill cuttings samples.

Sandstones in the Green River section, at least in drill cuttings samples, appear to be good reservoir rocks, being predominantly well sorted, friable to unconsolidated, rounded to subrounded quartz sandstones. With few exceptions, the sandstones in drill cuttings samples showed very little oil stain, or other evidence of hydrocarbon sample show. Throughout the Green River section, crossplot porosity of sandstone intervals from Halliburton's Spectral Density - Dual Spaced Neutron log is in the range of six to seven per cent.

Shales in the Green River section of the 3-12A3 Ute well show a variety of shades of color from ocher to yellow-gray, brown to dark brown, gray-brown to dark gray-brown, red-brown, light gray to light gray-green, and gray to dark gray. In this well, the predominance of shale colors was in the browns, red-browns, and ochers, suggesting a fluvial influence to deposition for much of the upper Green River.

The dark brown to dark gray-brown dolomite in the lower 1,150' of the 3-12A3 Ute suggests a lacustrine influence to deposition in that section of the well. The dolomite is generally very hard, contrasting sharply with the predominantly soft shales seen in drill cuttings samples. Virtually none of the dolomite in drill cuttings samples demonstrates any evidence of fracturing, and none of it appears to have any primary porosity. Most of it is microcrystalline to cryptocrystalline and appears very tight.

There were only seven identifiable shows in the 3-12A3 Ute, and all seven were of a magnitude to be considered minor. Four were encountered in sandstone sections, and three can be traced to dolomite intervals. All shows in this well were accompanied by the presence of some oil at the shaker, but from the composition of constituent gases in the shows (all show gases contained greater than 89% methane), these shows were predominantly gas shows, with little potential for significant oil production.

Drillstem tests were run over three intervals in the 3-12A3 Ute well to assist evaluation of potential productivity in the well. Included in this report are summaries of the tests. All three tests produced slight amounts of hydrocarbons, but flowing and shut-in pressures indicated low permeability and rapid depletion of reservoirs within the intervals.

In light of the small quantity and low quality of shows in the 3-12A3 Ute well, and the disappointing results of the three drill-stem tests run in the Green River section, the decision was made by Pennzoil personnel not to run production casing, but rather to plug the well.

Please refer to the mud log provided by Datalog Western for a detailed description of drill cuttings samples, and graphic representations of gas shows in the well. All samples were examined and described by the mud loggers and verified continuously by the wellsite geologist.

### FORMATION TOPS - 3-12A3 UTE

### picked from Halliburton High Resolution Induction Run 1 dated 04-09-91 KB 6,492', GL 6,472'

FORMATION	<u>DEPTH</u>	SUBSEA
Green River	7,510′	-1,018'
GR/Tg2	7,682′	-1,190'
GR/Tgm	7,855′	-1,363'
GR/Z	7,980′	-1,488'
GR/Y	8,249'	-1,757 <b>'</b>
GR/Trona 1	8,664'	-2,172'
GR/C3	9,064′	-2,572'
GR/Mahogany Bench	9,430′	-2,938'
TD	9,604'	-3,112'

DRILL STEM TEST #1 - 3-12A3 UTE

Date of Test:

April 3, 1991

Interval Tested:

7685 - 8097'

Tester:

Halliburton Resource Services

John Ballard

Formation:

Green River "Tg2" & "Tgm"

Mud Properties:

8.4 39 Wt Vis WL 11.6 PV 8 ΥP 7 Gels 3/10 Sol 1.0 1/32 0/99 FC O/W pH 10.5 Cl 300 Ca

Drill Stem Test Data:

65 min Initial Open:

opened w/ instant 2" blow in wtr; after 30 seconds incr to 4" blow; after 1 min decr to 2" blow; after 3 min decr to 1/2" blow; after 4 min decr to 1/4" blow; flow dead after 5 min.

300 min Initial Shut-in:

shut tool after 65 min; after 1 min 1/2-1" blow; after 2 min 1" blow; after 4 min 3/4" blow; after 8 min 1/4-1/2" blow; flow dead after 13 min.

43 min Final Open:

open tool with 3" blow; after 3 min decr to 2" blow; after 13 min decr to 1" blow; after 18 min decr to 1/2" blow; after 20 min decr to 1/4" blow;

flow dead after 30 min. 77 min Final Shut-in: shut in tool, no flow.

Drill Pipe Recovery:

1800' drilling mud

180' slightly oil & mud cut fm wtr

1980' Total (27 bbl)

Sample Chamber Recovery:

2352 cc formation water 48 cc drilling mud trace black oil

no pressure in sample chamber

Pressure Data:

LOWER RECORDER TIME UPPER RECORDER (@ 8093') (@ 7667') 3633 IHP 3408 IHP 661 - 729IFP 871-1001 min IFP 65 3424 ISIP ISIP 3200 300 min FFP 1014 - 1079 FFP 756-920 43 min 1668 FSIP 77 min FSIP 1617 FHP 3607 FHP 3394

Bottom Hole Temperature:

134° F

### DRILL STEM TEST #1 - 3-12A3 UTE (continued)

Rw's	and	Chlorides:				Rw		TEMP	CHLORIDES
			Spl Chbr:	.37	9	70°	F	5200	ppm
			Top DP:	3.5	@	70°	F	425	ppm
			Mid DP:	3.5	<b>@</b>	70°	F	425	ppm
			Bottom DP:	.37	e.	70°	F	5200	ppm
			Pit Mud:	3.5	9	70°	F	425	ppm

DRILL STEM TEST #2 - 3-12A3 UTE

Date of Test:

April 11, 1991

Interval Tested:

9080 - 9600'

Tester:

Johnston-Maaco/Schlumberger

Cliff Richards

Formation:

Green River "C3" & Mahogany Bench

Mud Properties:

35 WL 11.6 Wt 8.7+ Vis Gels 2/5 PV YΡ 5 6 O/W 0/96.9 FC 2/32 Sol 3.1 60 10.0 Cl 400 Ca Ha

Drill Stem Test Data:

3 min Initial Open:

opened w/ instant 1" blow in wtr; after 1 minute incr to 1 1/2" blow; maintained 1 1/2" blow to end of initial flow.

60 min Initial Shut-in:

shut tool after 3 min; blow decr to 1 1/4"; after 10 minutes decr to 3/4" blow; after 20 minutes 1/2" blow; after 30 minutes 1/4" blow; flow dead after 53 minutes.

240 min Final Open:

open tool with weak 1/4" blow; after 10 minutes incr to 2" blow; after 20 minutes incr to 2 1/2" blow; after 30 minutes incr to 4" blow; after 40 minutes incr to 5 1/4" blow; after 50 minutes decr to 4" blow; after 120 minutes incr to 4 1/4" blow; after 130 minutes decr to 4" blow; after 140 minutes decr to 3 1/2" blow; after 150 minutes decr to 3" blow; after 160 minutes decr to 2" blow; after 170 minutes decr to 1 1/2" blow; after 210 minutes decr to 1" blow; after 230 minutes

decr to 3/4" blow.
120 min Final Shut-in:

shut in tool, flow continued w/ 3/4" blow; flow dead after 19 minutes .

Drill Pipe Recovery:

210' Total (27 bbl)

Sample Chamber Recovery:

2400 cc drilling mud w/ tr of black oil

50 cc black oil.

0.0167 cu ft gas @ 100#.

### DRILL STEM TEST #2 - 3-12A3 UTE (continued)

LOWER RECORDER

II Cobbaic Data.	1 1111	•	TO 11 TT		•
			(@ 9	9091')	
			IHP	4239.71	
	3.00	min	IFP	61.86 -	80.07
	60.49	min	ISIP	2324.42	
	238.16		FFP	91.89 -	119.05
	120.71	min		2030.18	
			FHP	4137.48	
Bottom Hole Tempera	ature:		138° F		
Rw's and Chlorides	•		Rw	TEMP	CHLORIDES
	Spl Chbr	:	9.2	9 68° F	400 ppm
	Mid DP:		9.2	68° F	400 ppm
	Bottom D	P:	9.2	9 68° F	400 ppm
	Filtrate	•	9.0	68° F	400 ppm
	Pit Mud:		9.2	68° F	400 ppm
	Rec. Mud	:	9.2		400 ppm
					<del></del>

TIME

Pressure Data:

#### DRILL STEM TEST #3 - 3-12A3 UTE

Date of Test:

April 12, 1991

Tester:

Johnston-Maaco/Schlumberger

Cliff Richards

Interval Tested:

8684 - 9064'

Formation:

Green River Tronal

Mud Properties:

Wt 8.7+ Vis 35 WL11.6 PV ΥP 5 Gels 2/5 6 Sol 3.1 FC 2/32 O/W 0/96.9 рН 10.0 Cl 400 Ca 60

Drill Stem Test Data:

3 min Initial Open:

opened w/ instant 2 1/4" blow in wtr; maintained 2 1/4" blow to end of initial flow.

60 min Initial Shut-in:

shut tool after 3 min; blow remained @ 2 1/4"; blow decr to 1 3/4" after 10 min; blow decr to 1 1/2" after 20 min; blow decr to 1 1/4" after 30 min; blow decr to 3/4" after 40 min; blow decr to 1/2" after 50 min; blow decr to 1/4" after 60 min.

420 min Final Open:

open tool with instant 1" blow; after 1 min incr to 2" blow; after 2 min incr to 5" blow; after 4 min incr to 5 3/4" blow; after 5 min incr to 6" blow; after 10 minutes incr to 6 3/4" blow; after 15 min incr to 7" blow; after 25 min incr to 8" blow; after 45 min incr to 9 1/4" blow; after 105 min incr to 10" blow; after 130 min decr to 9 1/2" blow; after 145 min decr to 9" blow; after 165 min decr to 8" blow; after 210 min incr to 8 3/4" blow; after 225 min incr to 9" blow; after 240 min decr to 8 1/2" blow; after 270 min decr to 8" blow; after 300 min decr to 7 1/2" blow; after 315 min decr to 7" blow; after 330 min decr to 6" blow; after 345 min incr to 6 3/4" blow; after 360 min decr to 6 1/4" and remained till the end of final open period.

120 min Final Shut-in:

shut in tool, flow decr to 6" blow; after 9 min decr to 5 1/2" blow; after 20 min decr to 4 1/2" blow; after 30 min decr to 3 3/4" blow; after 45 min decr to 2 1/2" blow; after 60 min decr to 1 1/2" blow; after 72 min decr to 3/4" blow; after 80 min decr to 1/4" blow; decr till dead after 101 min; remained dead thru remainder of test.

### DRILL STEM TEST #3 - 3-12A3 UTE (continued)

Drill Pipe Recovery: 270' oil cut water & mud

45' mud cut oil & water

315' Total (1.54 bbl)

Sample Chamber Recovery: 114

1140 cc highly gas cut oil with trace

of water & mud 0.55 cu ft gas @ 125#.

Pressure Data: TIME LOWER RECORDER

(@ 8686')

IHP 4019.69

3.00 min IFP 79.12 - 99.89

60.49 min ISIP 1746.80

238.16 min FFP 120.34 - 161.56

120.71 min FSIP 668.99

FHP 4006.27

Bottom Hole Temperature: 137° F

Rw's and Chlorides: Rw TEMP CHLORIDES

Spl Chbr: Not enough fluid to test
Top DP: 2.2 @ 68° F 3000 ppm
Bottom DP: 1.2 @ 68° F 5000 ppm

Filtrate: 9.0 @ 68° F 400 ppm Pit Mud: 9.2 @ 68° F 400 ppm

Rec. Mud: None recovered

### SIGNIFICANT SHOWS - 3-12A3 UTE

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
	7861 <b>-</b> 7862 GR/Tg2	50% SS, clr, wh-trnsl, fros ip, w srt, f-v fgr, sbrd-sbang, pred uncons, occ fri, occ calc cmt, sl cly mtx, no flor, tr v wk poor yel mlky cut, sl tr lt brn o stn.  50% SH, 40% brn-redbrn, sft-frm, sbblky-sbplty, slty ip, n-sl calc.  40% och-yelbrn, sft-v sft, sbblky, rthy, n calc. n-sl calc.  20% gm-lt gn, occ gygn, sft-occ frm, sbplty-sbblky, sl calc.	Very slight trace of black oil over shaker accompanying show. Gas increased from a background of 55 units to a peak of 139 units.
2	7892-7894 GR/Tgm	40% SS, offwh-wh, m-w srt, vf-f gr, sbrd-sbang, pred uncons lse clr-fros qtz grs, sme wh cly mtx, occ calc cmt, tr free calc, no flor, v wk dul yel res cut.  60% SH, 40% lt gy-gygn, lt gn, sft-occ frm, sbplty-sbblky, sl calc.  30% brn-redbrn, sft-frm, blky-sbplty, slty ip, rthy, n-sl calc.  30% och-yelgy, sft-frm, sbplty-sbblky, rthy, occ slty, n-sl calc.	Very slight trace of black oil over shaker accompanying show. Gas increased over a background of 18 units to a peak of 142 units.
3	8696-8702 GR/Tronal	50% SS, clr, wh, offwh, occ s&p, m-w srt, v f-fgr, sbang-sbrd, uncons-fri, calc cmt, slty ip, scat yel flor, v sl wk yel cut.  20% DOL, dk brn, dk gybrn, frm-v frm, micxln-v fxln, dns, m arg, scat yel flor, v wk yel cut.  30% SH, 40% lt gy-gy, tr lt gn, sft-occ frm, sbblky, slty ip, n-sl calc.  30% brn-redbrn, lt brn, sft-occ frm, sbblky-blky, slty, rthy, n calc.  30% och, yelgy, sft, blky-sbblky, slty, n-sl calc.	Slight increase in black oil over shaker during show. Gas increased over a background of 43 units to a peak of 159 units.

### SIGNIFICANT SHOWS - 3-12A3 UTE

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
4	8783-8790 GR/Trona1	10% SS, wh, offwh, w-m srt, v f-fgr, sbang-ang, fri, abnt lse clr-trnsl qtz grs, NSOFC.  20% DOL, brn-dk brn, dk gybrn, frm-v frm, blky-sbblky, micxln-v fxln, m arg, tr f dism pyr, v sl scat yel flor, poor yel res cut.  70% SH, 40% lt gy-gy, tr gygn, frm, sbblky, slty & aren ip, n-sl calc.  30% lt brn-brn, gybrn, sft-occ frm, sbblky, slty, m calc.  30% och, yelgy, sft-frm, sbblky, slty, rthy, n-sl calc.	No noticeable increase in oil during show. Gas increased over a background of 90 units to a peak of 138 units.
5	8920-8923 GR/Tronal	10% SS, wh, lt gy, pred w srt, v f-fgr, sbrd-sbang, m cmt-occ uncons, sme calc cmt, NSOFC.  20% DOL, dk gybrn-dk brn, hd-v frm, blky, slty & aren ip, m arg, v fxln-micxln, NSOFC.  70% SH, 60% och, yelgy, sme yel & gy mot, frm-sft, sbplty, slty ip, n-sl calc.  30% gy-lt gy, gygn, frm, sbblky, slty & aren ip, n-sl calc.  10% brn-redbrn, sft-frm, sbblky, slty, rthy, n-sl calc.	No increase in oil at shaker during show. Gas increased over a background of 85 units to a peak of 309 units.
6	9021-9030 GR/C3	20% SS, clr, offwh, lt gy, m-w srt, v f-fgr, sbang-sbrd, fri-uncons, calc cmt, slty, tr dull gold flor, v wk mlky yel cut.  30% DOL, brn-dk brn, gybrn, frm-v frm, blky-sbblky, arg, crpxln-micxln.  50% SH, 40% och-yelgy, sft-v sft, blky, slty, sl calc.  30% lt brn, redbrn, sft, blky-sbblky, slty, rthy ip,	No visible oil over shaker during show. Gas increased over a background of 79 units to a peak of 235 units.
		<pre>sl calc. 30% lt gy, gygn, sft-occ frm, blky, slty ip, sl calc.</pre>	

### SIGNIFICANT SHOWS - 3-12A3 UTE

SHOW #	INTERVAL & FORMATION	SAMPLE DESCRIPTION	SHOW SUMMARY & REMARKS
7	9432-9441 GR/Mahogany Bench	10% DOL, gybrn-dk gybrn, frm-hd, blky- sbblky, micxln-crpxln, sl slty ip, tr dism pyr. 90% SH, 80% och-yelbrn, sft, sbblky, aren, ip grdg to arg ss, n- sl calc. 20% gy-lt gy, lt gygn, sft- occ frm, sbblky-sbplty, slty ip, sl calc.	No oil over shaker accompanying show. Gas increased over a background of 100 units to a peak of 262 units.

# DAILY LOG OF OPERATIONS FOR 3-12A3 UTE (6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
03-14-91	1	88	-0-	Rig up Grace 186.
03-15-91	2	875	787	Drlg. Bit #1. Spud @ 1:00 P.M. 3/14/91.
03-16-91	3	1785	910	Drlg. Bit #3. Drill to 980' w/ bit #1. TOH for bit #2. Drill to 1694', TOH for bit #3.
03-17-91	4	2620	835	Drlg. Bit #4. Drill to 2354', TOH for bit #5.
03-17-91	5	3010	390	Wait on cmt. Drill to 3010', TOH to run csg.
03-10 91	J	3010	330	Run 71 jts 28# S-80 8 5/8" csg to 3010', cmt csg w/ Halliburton.
03-19-91	6	3010	-0-	Wait on BLM to witness pressure test. Cut off csq, nipple up BOP's, test stack.
03-20-91	7	3190	180	<pre>Drlg. Bit #5. Wait on BLM to witness pressure test, test BOP's, TIH w/ bit #5 to drill out.</pre>
03-21-91	8	3930	740	Drlg. Bit #6. Drill to 3726'w/ bit #5, TOH for bit #6.
03-22-91	9	4704	774	Drlg. Bit #6.
03-23-91	10	5265	561	Drlg. Bit #6.
03-24-91	11	5765	500	Drlg. Bit #6
03-25-91	12	6038	273	Drlg. Bit #7. Drill to 5854'w/ bit #6, TOH for bit #7.
03-26-91	13	6406	368	Drlg. Bit #7.
03-27-91	14	6781	375	Drlg. Bit #7.
03-28-91	15	7117	336	Drlg. Bit #7.
03-29-91	16	7356	238	Drlg. Bit #8. Drill to 7181' w/ bit #7, TOH for bit #8.
03-30-91	17	7612	259	Drlg. Bit #9. Drill to 7559' w/ bit #8, TOH for bit #9.
03-31-91	18	7916	348	Drlg. Bit #9. Show #1 7861-7862', Show #2 7892-7894'.
04-01-91	19	8083	123	TOH w/ magnet w/ lost cone & shank from bit #9. Drill to 8083' w/ bit #9. TOH for bit #10. Left 1 cone & shank in hole. TIH w/ magnet to fish.
04-02-91	20	8097	14	Circ & cond hole prior to DST #1. TIH w/ bit #10, drill to 8097'. Circ & mud up to run DST #1. Short trip 20 stands.
04-03-91	21	8097	-0-	TOH, lay down DST tools. TOH for DST #1, pick up test tools, & SLM in hole. Set pkr @ 7685' & test interval 7685-8097'. TOH w/ test tools, left 4 DC's & 35' of test tools in hole.
04-04-91	22	8171	74	Drlg. Bit #10. TIH w/ 7 3/8" overshot, wash & work over top of fish @ 7682'. Chain out w/ fish, lay down fishing tools. TIH w/ bit #10.
04-05-91	23	8541	370	Drlg. Bit #10.
04-06-91	24	8906	365	Drlg. Bit #10. Show #3 8696-8702' show #4 8783-8790'.

# DAILY LOG OF OPERATIONS FOR 3-12A3 UTE (6:00 AM DEPTHS)

DATE	DAY	DEPTH	FOOTAGE	OPERATIONS								
04-07-91	25	9268	362	Drlg. Bit #10. Show #5 8920-8923, show #6 9021-9030.								
04-08-91	26	9428	160	Drlg. Bit #11. Drill to 9268', TOH for bit #11.								
04-09-91	27	9600	172	TOH to run logs w/ Halliburton. Show #7 9432- 9441'. Cease drlg @ 10:00 PM 4/8/91. Circ bottoms up, short trip 20 stands.								
04-10-91	28	9600	-0-	Circ & cond hole & mud, WOO. Log w/								
04-11-91	29	9600	-0-	TOH w/ test tools after DST #2. TOH to pick up test tools for DST #2, TIH, DST #2 9080-9600'.								
04-12-91	30	9600	-0-	TIH w/ DST #3. TIH w/ bit #11, wash 20' to bottom, 5' fill. Circ & cond hole for DST #3, TOH for DST #3.								
04-13-91	31	9600	-0-	TIH, WOO. Bit #11. PU test tools, TIH for DST #3. DST #3 8684-9064', TOH w/ DST #3, lay down test tools.								

APPENDIX 1 - Bit Record

### BIT RECORD - 3-12A3 UTE

BIT NO.	SIZE	MAKE	TYPE	JETS	SERIAL NO.	DEPTH OUT	FEET	HOURS	FT/HR	ACCUM HOURS	WOB 1000#	RPM	PUMP PRESS	SPM 1 - 2	GRADE T B G
1	11	SEC	S-3	15-15-15	326187 (RETIP)	980	892	19	46.95	19	30	70	1400	104-100	77I
2	11	HTC	R-3	15-15-15	P903 (RETIP)	1694	714	13.25	53.89	32.25	30/40	70	1500	100-96	6 6 I
3	11	HTC	R-3	15-15-15	N55HY (RETIP)	2354	660	15.75	41.90	48	40	70	1500	104-100	7 7 I
4	11	HTC	OSCIG	15-15-15	MH605 (RETIP)	3010	656	. 11	59.64	59	40	70	1400	104-100	4 6 I
5	7 7/8	HTC	J-2	11-11 <b>-</b> B	KJ692	3726	716	18.5	38.70	77.5	35	60	1400	100-	4 6 I
6	7 7/8	STC	F-2H	11-11-B	KP7451	5854	2128	81	26.27	158.5	35	60	1500	100-	4 2 I
7	7 7/8	HTC	ATJ33	11-11-B	T92HS	7181	1327	82.5	16.08	241	35/40	65	1500	100-	4 4 I
8	7 7/8	SEC	S84F	11-11-B	529242	7559	378	24	15.75	265	35/40	65	1500	100-	7 4 1/16
9	7 7/8	REED	HP53	11-11-B	M00500	8083	524	35	14.97	300	30/40	62	1500	95-	8 8 1/16
10	7 7/8	STC	F-45	11-11-B	KP1094	9268	1185	75.5	15.70	375.5	40/45	64	1500	97-	7 4 1/16
11	7 7/8	STC	F-45	11-11-B	KP1090	9600	332	28	11.86	403.5	45	64	1500	96-	4 2 I

MUD RECORD - 3-12A3 UTE

		MUD		WATER			GEL	8	FILTER	OIL/						DAILY	<u>cum</u>
DATE	DEPTH	WEIGHT	<u>VIS</u>	LOSS	PV	<u>YP</u>	STRENGTH	SOLIDS	CAKE	WATER	<u>H</u> q	<u>Cl</u>	<u>Ca</u>	LCM%	ECD	COST	COST
03-14-91	230	8.8	34	N/C	4	12	3/10	3.5	4/32	0/96.5	11.5	400	240			292	292
03-15-91	1463	8.4	27	N/C				0.5		0/99.5	11.0	400	680			441	733
03-16-91	2354	8.33	26	N/C				0		0/100	11.5	300	680			992	1,725
03-17-91	3010	8.4+	28	N/C	1	0	0/0	1.0		0/99	11.0	300	580			1,477	3,202
03-18-91	3010	8.33	26	N/C				0		0/100	11.0	450	600			1,477	3,202
03-19-91	3010	8.33	26	N/C				0		0/100	11.0	450	600			317	3,519
03-20-91	3565	8.33	26	N/C				0		0/100	11.5	300	820			625	4,144
03-21-91	3930	8.33	26	N/C				0		0/100	10.0	300	520			364	4,508
03-22-91	4707	8.33	26	N/C				0		0/100	10.5	300	280			1,021	5,529
03-23-91	5265	8.33	26	N/C				0		0/100	11.0	300	340			1,189	6,718
03-24-91	5766	8.33	26	N/C				0		0/100	11.0	400	280			1,160	7,878
03-25-91	6038	8.33	26	N/C				0		0/100	10.5	400	400			1,387	9,265
03-25-91	6233	8.33	26	N/C				0		0/100	11.0	300	240			240	9,505
03-26-91	6565	8.33	26	N/C				0		0/100	10.5	300	220			557	10,062
03-27-91	6896	8.33	26	N/C				0		0/100	11.0	300	260			186	10,248
03-28-91	7181	8.33	26	N/C				0		0/100	10.5	300	280			516	10,764
03-29-91	7500	8.33	26	N/C				0		0/100	11.0	300	280			352	11,116
03-30-91	7775	8.33	26	N/C				0		0/100	9.5	300	160			228	11,344
03-31-91	8083	8.33	26	N/C				0		0/100	11.0	300	200			579	11,923
04-01-91	8083	8.33	26	N/C				0		0/100	11.0	300	200			47	11,970
04-02-91	8097	8.5	37	12.8	9	8	3/11	1.3	1/32	0/98.7	10.5	300	60			3,393	15,316
04-03-91	8097	8.4	39	11.6	8	7	3/10	1.0	1/32	0/99	10.5	300	60			482	15,798
04-04-91	8160	8.4	28	N/C	2	0	0/0	0.5		0/99.5	11.0	400	220			39	15,837
04-05-91	8525	8.33	26	N/C				0		0/100	11.0	300	160			360	16,197
04-06-91	8890	8.4	27	N/C	7	0	0/0	0.5		0/99.5	11.0	300	240			182	16,379
04-07-91	9255	8.33	26	N/C				0		0/100	10.5	300	160			295	16,674
04-08-91	9415	8.5	27	N/C	2	0	0/0	1.3		0/98.7	9.5	400	120			881	17,555
04-09-91	9600	8.8	38	12.2	10	8	3/12	3.5	2/32	0/96.5	11.0	400	100			1,998	19,553
04-10-91	9600	8.7+	35	11.6	6	5	2/5	3.1	2/32	0/96.9	10.0	400	60			219	19,772
04-11-91	9600	8.7+	35	11.6	6	5	2/5	3.1	2/32	0/96.9	10.0	400	60				19,772
04-12-91	9600	8.7	35	11.2	7	6	2/8	2.8	2/32	0/97.2	10.0	400	60			121	19,893
04-13-91	9600	8.7+	37	10.8	6	4	2/5	3.1	2/32	0/96.9	10.0	400	60				19,893

## NOTIFICATION AND INFORMATION REQUIREMENTS

-	NOTIFICATION		D 111	1011	WA.	1014	n L G	OINL	.141 - 1	113		_		
Pennzoil Company P.O.Box 2967 Houston, TX 77252-2967	LARGE PACKAGES Pennzoil Company 700 Milam Houston, TX 77002 ATTN: Greg Stevens	AFE & Well Prognosis	State Permits, Reports, Survey, etc.	Daily Drilling Reports - Phone	Daily Drilling Reports - Mail	Electric Logs - Field Prints	Electric Logs - Final Prints	Electric Logs - Film Prints	Electric Logs - Tape LIS Format	Log Telecopies as needed	Notice prior to & results of DTS's, Cores, Logging, Plugging, etc.	Reports - DST, Geological, Completion, Fluid Analysis, etc.	Daily Mud Log & Final Mud Log	Cutting of samples
Pennzoil Company P.O. Box 2967 - 27th Houston, Texas 77252 ATTN: Greg Stevens Office: (713) 546-83	Floor -2967	1	2	1	1	2	2	1	1	1	1	2	1&2	1
Pennzoil Company P.O. Box 290 Neola, Utah 84053 ATTN: Danny Layman		2	1	0	0	1	0	0	0	0	1	1	0&1	0
Utah Oil, Gas & Mining 355 West North Temple Suite 350 Salt Lake City, Utah		0	1	0	0	0	1	0	0	0	0	1	0&1	1
	Total	3	4	1	1	3	3	1	1	1	2	4	1&4	2